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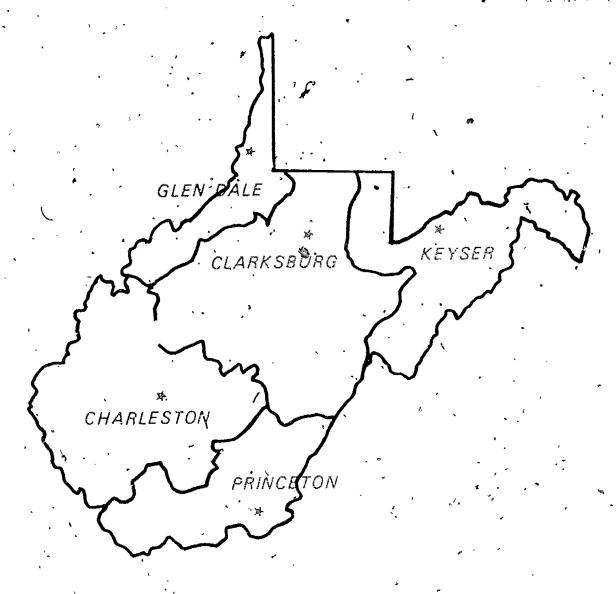
*Education Professions Development Act: EPDA

ABSTRACT

Five career education institutes were conducted in West Virginia for 128 superintendents, principals, directors of vocational education, curriculum specialists, and guidance personnel representing 30 counties in the State. The general objective of the institutes was to provide meaningful information and experience upon which educators in local school systems would be able to make decisions relative to planning and implementing career education programs. This document contains the institute program, presentations and activities, list of participants, and evaluation. Papers were presented on task and process in career education, career education principles, career education -- boom or boomdoggle, the Lincoln County exemplary model, industrial arts role in career education, career education curriculum development, and career education practicum. Evaluation instruments and test scores are appended. (MF)

CAREER EDUCATION INSTITUTES

A Report on an EPDA Project Entitled: Strategies for Developing Career Education Programs US DEPARTMENT OF HEAL IN EDUCATION & WELFARE NATIONAL INJUSTITIES EDUCATION OF THE ANALYSIS OF



LeVene A. Olson, Ed.D.
Project Director
Department of Vocational Technical Education
Marshall University
Huntington, West Virginia 25701

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PREFACÉ

The need to provide realistic educational experiences upon which youth can make wise decisions concerning the future has long been recognized. However it has not been until recently that the Federal Government has authorized the expediture of funds for comprehensive career education activities thus providing legitimacy to career education.

There has also been the growing desire on the part of local educators to provide attitudinal and decision making experiences related to the world of work to all students, in all disciplines, and at all educational levels. Because of a lack of specific information and experience related to career education, local school personnel have been reluctant to provide career education experiences to their students.

An attempt was made to overcome the paradox of a desire to provide realistic experiences on the one hand and the lack of "know how" on the other hand by Marshall University in cooperation with the West Virginia Bureau of Vocational Education and U. S. Office of Education.

Five Career Education Institutes were conducted in West Virginia during the summer of 1972 at the following sites: Charleston, Clarks-burg, Glen Dale, Keyser, and Princeton. The target population consisted of Superintendents. Assistant Superintendents, Principals, Directors of Vocational Education, Curriculum Specialists, and Guidance personnel.

The staff consisted of a group of qualified individuals with expertise in diverse fields who possessed a common concern for youth and a common recognition that the public school must expand its four walls and provide more realism in the learning experiences provided to students. The staff consisted of:

Dr. Alton C. Crews
Superintendent
Charleston County Public Schools
Charleston, South Carolina 29401

Mr. Herbert B. Holstein
Director of Vocational Education
and Exemplary Program Director
Lincoln County Schools
Hamlin, West Virginia -25523

Mr. Sidney L. Linville
Assistant Superintendent
Putnam County School System
Eleanor, West Virginia 25070

Mr. Keith Smith a Vocational Guidance Specialist Division of Guidance, Counseling, and Testing State Department of Education Charleston, West Virginia 25305

Mr. James Snyder
Program Specialist, Industrial Arts
Bureau of Curriculum and Instruction
State Department of Education
Charleston, West Virginia 25305

Mr. Thomas E. Woodall Career Guidance Specialist Georgia Southern College Statesboro, Georgia 30458

One hundred, twenty eight (128) participants representing thrity (30) counties in the State were involved in the five Career Education Institutes. The educators who were involved are as follows:

Gilbert Atkins
Everett E. Barnett
Paul C. Bartlett
Kermit B. Bias
Evelyn C. Black
Joseph Blaine Board
Elizabeth Bonie
Louise Bowers
Stella Brink
Charles T. Brooks
James R. Brown
Allen D. Bucklew
Jan D. Bucklew
Clarence E. Burdette
Robert J. Burns

Assistant Director
Coordinator of Federal Programs
Superintendent
Industrial Education
Counselor
Principal
Elementary Supervisor
Counselor
Adult Coordinator
Director of Vocational Education
Superintendent
Superintendent
Coordinator Guidance and Testing
Assistant Superintendent
Coordinator Pupil Services

Barbour Taylor Taylor Marion Marshall Brooke Grant Barbour Mercer Ritchie Tucker Tucker State Hancock

Mercer

Richard Campbell Director , Assistant Superintendent Lonnie W. Canterbury Principal Ronald B. Cantley : Ira Glynn Carlock Counselor Ted Carter Counselor Gerald Chadock Director ' Counselor Jahice Christopher -Wendell Christopher Assistant Principal Donald Cleavenger Director of Vocational Education Counselor Joyce Coe George D. Covey Principal Elementary Coordinator Rosemary Courly Supervisor Philip Darmelio Counselor Lena C. Dillon Counselor Paul J. Donato Assistant Superinten int Frank Dumas Assistant Principal. Dennis M. Edge Director of Federal Programs A. Thomas Edwards Assistant Superintendent George M. Edwards Director of Vocational-Adult Ed. John M. Evancho Supervisor; Secondary Education Bettye Evans Principal Thomas Evans Counselor Violet Farmer Şupervisor (Practical Arts) Judy Felty Guidance Coordinator Irene M. Fitzwater Vocational Director D. W. Fox Supervisor James D. Frazier Chester W. Freed Program Manager Public Services Bernice' B. Gist Waneila Halbritter Guidance Coordinator Coordinator Elementary C & I Virginia Haller Director of Federal Programs Robert D. Harmon Math Supervisor . S. Eldon Harper Superintendent Donald A. Haskins Katherine C. Hill Counselor Rhoda Hofstetter, Math Coordinator Principal John L. Holsberry Harold A. Holstein Counselor Vocational Director Herbert B. Holstein Adult & Pupil Services Director Jeanne S. Holt Paul Holton Principal Elementary Counselor Donna Howe Lyla C. Howell Counselor Human Resources Coordinator J.-W. Kêssel Counselor Phyllis Kessel Principal Ted Lacy, Jr. Ruth Larew Counselor Director, Guidance and Placement Gene Lee Counselor Linda Lester Director, Curriculum & Instruction Betty Linvingood Earl R. Lucas Principal

Roane Raleigh ' Mercer Ohio Grant Berkeley Berkeley Barbour Raleigh Raleigh Ohio Brooke Fayette Marion Ohio Marion Berkeley Fayet te Hancock Mercer Raleigh Boone Cabell Fayette Cabell Monroe Jefferson Brooke Preston° 'Mineral, Mineral Tucker Marshall Mercer Fayette Mineral Boone Lincoln Harrison Cabell Berkeley **Pochontas** Mineral Grant. Raleigh Raleigh Mercer Mercer . Mineral

Boone

Mineral

Richard A. Mann Helen Markwell Henry Marockle Mary Elizabeth Martin Dale Mason Toni J. Mason ' Helen ... Matthews , Dorothy L. McCallister Mary Jane McMahon Richard L. Meador John V. Miller Jr. Marguerite Miller Denis J. Minor. Charles G. Moore Connie G. Mullens~ Helen Z. Muller Larry Myers Missburn Joe Nolan John Nuzum Challens B. Odell Ernest Page, Jr. Vincent Paoletti Maxine W. Ferdue Julia L. Pitsenberger Fay M. Potter Robert L. Quigley James R. Randolph Henry A. Ray Phillip Reed Eugène Remenar Margaret Reppard Roy G. Ross Paul D. Rothrock Kenneth . Rucker Thomas Gale Schell Lonnie D. Scragg Ann Serafin Harold E. Shaffer Eleanor Ann Shirley Ruby Shrewsburg 'Catherine B. Smith David E. Smith Fredric W. Smith James M. Smith Stephen E. Smith Gary D. Sumpter Josephine R. Swiger Lucille Temple Leonard Thompson Gerald A. Trembush

Job Placement Kindergarten Superintendent, Counse_or Principal Career Education Coordinator Supervisor-Guidance Services Counselor Counselor Counselor Superintendent Guidance Director Counselor Assistant Director Principal Supervisor Coordinator of Secondary Curriculum Assistant Director Vocational Education Director Vocational Coordinator Superintendent Assistant Principal Vocational Counselor Counselor School Counselor Assistant Principal Director Technical Programs Assistant Superintendent Guidance Director Assistant Superintendent Counselor Principal Superintendent Director Secondary Curriculum Pupil Personnel Assistant Principal Director Elementary Education Principal Supervisor. Counselor Counselor Vocational Director Principal Coordinator Special Education Principal Superintendent Guidance Counselor

Raleigh Grant . Ohio Mercer, Marsh'all Jefferson Wayne, Fayette Marshall Raleigh Preston Mercer Marshall Cabell Putnam Wayne Minerál Wayne · Harrison Tucker Mineral · Marshall Wayne Randolph Brooke Ohio Wood Wayne. Ohio Hancóck Marshall Putnam Hancock Putnam . Marshall Cabell Barbour Grant. Berkeley Mercer Brooke Pecahontas Pocahontas Taylor Grant Boone Harrison Preston . Wayne

Marshall

Principal

Principal

Supervisor ~

William O. Umstead III
William K. Valko
Kenneth Eugene Vance
Paul J. Vennari
Bobby E. Via
Pamela B. Warfield
Paul Wassum
Ralph S. Webb
Richard C. Whiting
Trixie Wood
Thomas E. Woodall
James A. Wright

Director-Pupil Personnel Services
Counselor
Guidance Counselor
Principal
Principal
Elementary Counselor
Director, Secondary Language Arts
Counselor
Director of Instruction
Counselor
Guidance Coordinator
Principal

Wetzel
Marshall
Pocahontas
Raleigh
Monroe
Marshall
Cabell
Raleigh
Berkeley
Raleigh
Lincoln
Raleigh

LeVene A. (Lee) Olson
EPDA Project Director
Director of Career Education
Department of Vocational-Technical Education
Marshall University
Huntington, West Virginia 25701

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INTRODUCTION

by LeVene A. Olson

The general objective of the Career Education Institutes was to provide reanineful information and experience upon which educators in local school systems are able to systematically make decisions relative to planning, developing, promoting, implementing, and evaluating Career Education.

Through Career Education, learning experiences can become much more relevant for Americans of all ages. However, administrators are supervisors must be willing to allow teachers to: (1) move away from a recimented curriculum, (2) give up an authoritarian orientation, (3) bring the outside real world into the classroom, and (4) allow students to begin an educational experience at the point of interest and concern of the students.

Many administrators have been unwilling to attempt Career Education because of a lack of specific information and experiences related to the Career Education concept. Robert Worthington, Associate Commissioner for Adult, Vocational, and Technical Education, articulated his concern for the lack of Career Education information and experiences provided to administrators, supervisors, and counselors which has "tended to perpetuate inadequate coordination of resources, a dichotomy between State Departments of education and institutes of higher education, poor

utilization of available support from business, industry and the community and an imbalance in strategies selected to implement priorities."

Educators, parents, and the public are becoming increasingly concerned about the need to provide accurate and complete information and meaningful experiences to students about occupational and educational alternatives. Although educators are usually not concerned with attitudes concerning occupations per se, they are concerned with behavior modification related to academic skills necessary in most occupations.

According to Bandura, "the development of 'eneficial attitudes is often regarded as a major objective of social change endeavors." He further points out that it is assumed that a correlation exists between the attitudinal domain and subsequent actions. Yet in light of this objective, Toffler states that "the more crucial the question of values (attitudes) becomes, the less willing our present schools are to grapple with it. It is no wonder that millions of young people trace erratic pathways into the future, ricocheting this way and that like unguided missiles."

Students possess a vast repertoire of behavior which reflects attitudes about occupations and education. Many of these attitudes are based, however, on inadequate information and experiences acquired

Robert M. Worthington, Comprehensive Personnel Development For Career Education, (A discussion paper prepared for the Fourth Annual Leadership Development Seminar for State Directors of Vocational Education, September 1971, LasVegas, Nevada) p. 3.

Albert Bandura, <u>Principles of Behavior Modification</u>, (New York: Holt, Rinehart, and Winston, Inc., 1969), p. 595.

³Alvin Toffler, <u>Future Shock</u>, (New York: Random House, Inc., 1970), p. 869.

from misguided socialization agents. The process of socialization (learning attitudes and values) has for the most part in the past come about unintentionally. Attitudes about occupations and education have been formed through incidental learning which has often been based on inaccurate or faulty information. But even with inaccurate or faulty information the youth of today seem to possess a high degree of sophistication. Today's students do not appear to be as naive as the students of the past. Even so, thousands of students graduate from high school each year lacking a useful education.

'Addressing this point Commissioner Marland states that the students "are the unfortunate inmates, in most instances, of a curriculum that is neither fish nor fewl, neither truly vocational nor truly academic. We call it general education. I suggest we get rid of it."

In the agrarian society of the American Nation in former years, adult roles were quite visible. Large extended families provided uncles, aunts, grandparents, parents, and others for the young to imitate.

Small factories and businesses were often found in the home. The youth were surrounded by and involved in work activities which provided, the knowledge and experience upon which attitudes were formulated.

In the past, educated and literate employees were desired but by no means essential. Some of the greatest industries in the United States in the past were administered principally by men who could not speak

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⁴Sidney P. Marland, Jr., <u>Career Education Now</u>, (An address at the Convention at the National Association of Secondary School Principals, January 1971, Houston, Texas) p. 4.

English. 5 However, the development of a highly sophisticated body of science and experience in its application has resulted in rare occurrence of such phenomena.

Changes in American society have virtually eliminated the traditional 'method of graining knowledge and experience upon which attitudes and subsequent occupational decisions are facilitated. If students who comprise the emerging labor force are to be viable members of society, it is important that they systematically be provided with the knowledge and experience upon which future occupational decisions can be based.

The need for innovative educational programs in a period of massive technological change has long been recognized. Galbraith observed that youth has been excluded from the labor market partly because of the hardship of employment and partly to make way for education opportunities. Yet, youth has not been provided with the education (at least in full and satisfactory measure) which the exemption from labor was designed to make possible.

Congress recognized the need for "new ways to create a bridge between school and earning a living for young people" by including a section on Exemplary Programs and Projects in the Vocational Education Amendments of 1968. One method of carrying out the purposes of Part D, Section 142, is to establish innovative model programs "designed"

⁵John Kenneth Galbraith, The Affluent Society, (Boston: Houghton Mifflin Company, 1958) p. 213.

⁶Galbraith, p. 262.

⁷U. S. Congress, <u>Vocational Education Amendments</u> of 1968, Public law 90-576, 90th Congress (1968), 17.

range of occupations for which special skills are requirerequisites for careers in such occupations.

Hansen suggests that present career education practices in the schools have not kept pace with theoretical developments. Traditional methods of providing career information (occupational information units, career days, etc.) need to be evaluated and possibly replaced by a sequential program, K-12. Hansen's suggestions are based on changes in vocational development theory, the nature of work and its meaning to the individual, and new information retrieval technology. The following are suggested examples of experiences that may be included in career education: (1) decision-making experiences, (2) industrial and educational vi , (3) counseling, (4) career games, (5) simulated decision-making experiences, (6) periodic visits to career guidance centers, (7) periodic career conferences, (8) job site visits, (9) reinforcement models, (10) staff career specialities, and (11) student career logs.

. According to Commissioner Marland,

It is flatly necessary to begin to construct a sound, systematized relationship between education and work, a system which will make it standard practice to teach every student about occupations and the economic enterprise, a system that will marketly increase career options open to each individual and enable us to do a better job than we have been doing of meeting the manpower needs of this country.

⁸U. S. Congress, 18.

Lorraine S. Hansen, "Theory into Practice: A Practitioner Looks at Career Guidance in the School Curriculum, "Vocational Guidance Quarterly, Volume 16, No. 2 (December 1967), 97-103.

S. P. Marland, Jr., <u>Career Education - More Than A Name</u>, (An address before the State Directors of Vocational Education, May 1971, Washington, D. C.) p.6.

e of sociological changes and the resulting ramifications for the individual in today's society and vast technological advances which leave many (to use Toffler's terminology) in a state of "future shock" makes it imperative that school administrators become knowledgeable about alternative methods of providing relevant education for the youth of the Nation

Based on/this rationale, the institutes were designed to:

- Define career education, provide strategies for implementation, and investigate cost and effectiveness of career education.
 - Demonstrate the developmental relationship of career awareness, career orientation, career exploration, and career preparatory education.
 - Provide information concerning curriculum development, correlating curriculum, and teaching strategies suggested in career education.
- 4. Provide experiences related to administration, articulation, and public relations in career education.
- 5. Provide experiential activities with commerically produced resource materials, which can be utilized by teachers and students.
- 6. Formulate models and strategies upon which local schools may conduct programs of career education.

The program schedule for the five institutes was as follows:

Monday:

Task and Process,
Defination of Career Education,
Strategies for Implementing Career Education
Costs of Career Education
Effectiveness of Career Education
Career Education Model

Tuesday:

Lincoln County Exemplary Model
Lincoln County Resource Units and Bibliography
Industrial Arts Role in Career Education

Wednesday:

Cognitive, Affective, and Psychomotor Objectives . The Emerging Role of Guidance and Counseling

Thursday:

Administration, Articulation, and Public Relations
Career Survey Hodel
Curriculum Development
Career Education Delivery System

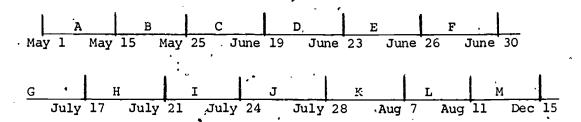
Friday:

Designing Models and Developing Strategies
Organizing and Conducting Workshops

CAREER EDUCATION INSTITUTE

MONDAY	TUESDAY	WEDNESDAY	THRUSDAY	FRIDAY
9:00 Registration for the Institute	9:00 Lincoln County Exemplary Model Herb Holstein	9:00 Cognitive, Affective and Psychomotor Objectives	9:00 Articulation and Public Relations Sidney Linville	9:00 Designing Models and Developing Strat- egies Lee Olson
	(Group Interaction) 10:15 Break	(Interaction Groups)	(Group Ínteraction) 10:15 Break	(Group Interaction) 10:15 Break
Task and Process Ed Woodall Career Education	10:30 'Implementing Carreer Education Herb Holstein	10:30 Experiential Activities with Commer-cially Produced Mate-	10:30 Career Survey Sidney Linville	10:30 Organizing and Conducting Workshops Lee Olson
Lee Olson (Transtion Groups)	(Group Interaction)	rials	(Group Interaction)	(Group Interaction)
(Seminar Session)	12:00 Lunch	12:00 Lunch	12:00 Lunch	12:00 Lunch
12:00 r Lunch	1:00 Industrial Arts	1:00 The Emerging role of	1:00 Curriculum Devel-	σ
1:00 Cobb County Exemplary		nce and Counse h Smith	opment Lee Olson	Marshall University credit Lee Olson
Moder Alton Crews (Group Interaction)	2:15	(Group Interaction) 2:15 Break	(Group Interaction) 2:15 Break	Concluding remarks
2:15 Bréak	2:30 (Seminar Session) Technology for	2:30 (Interaction Groups) Guidance and Coun-	2:30 'Career Education Delivery System	cedures cedures Lee Olson
2:30 (Seminar Session) Cobb County Model	Children Jim Snyder	seling Keith Smith .	(Group Interaction) Lee Olson	
Alt rew				

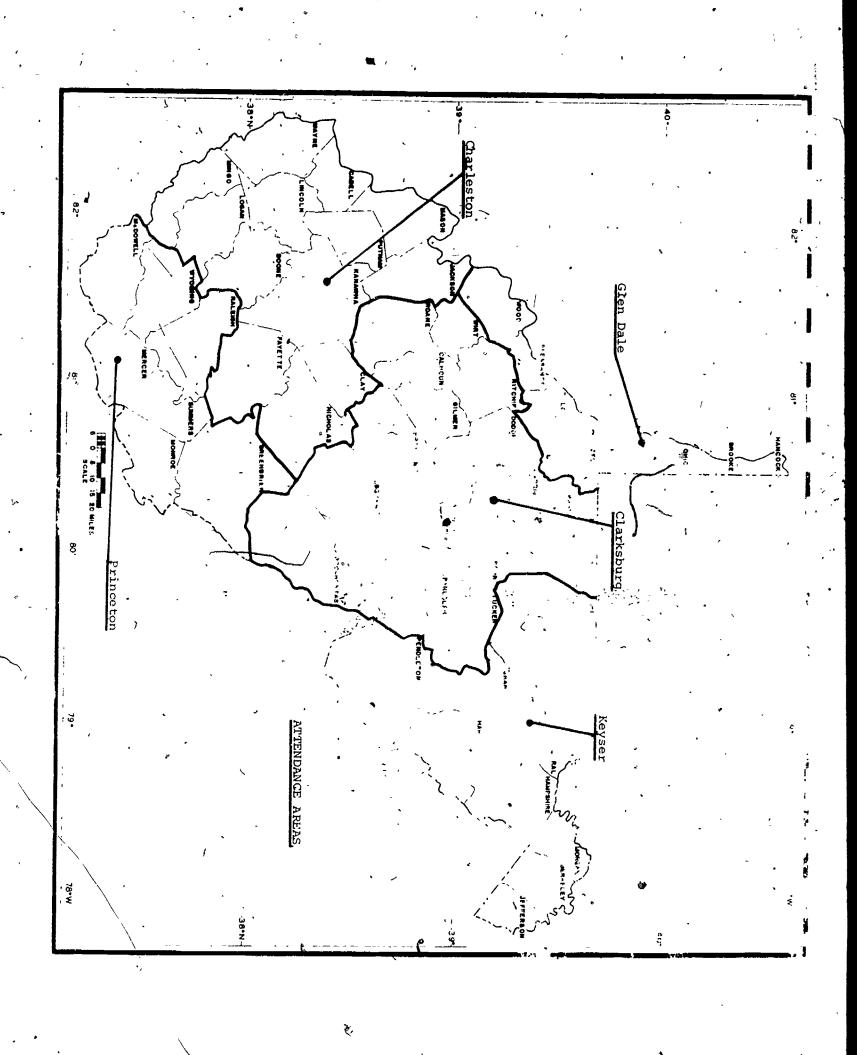
The activities related to the institutes covered a three month period. The following chart indicates the time period and activities involved.



- A. Applications Received and Reviewed
- B. Applicants Notified
- C. Pre-planning
- D. Charleston Institute
- E. Pre-planning
- F. Princeton Institute
- G. Fre-planning
- H. Glen Dale Institute
- I. Pre-planning
- J. Keyser Institute
- K. Pre-planning
- L. Clarksburg Institute
- M. Final Report Prepared

The attendance areas for the institutes are indicated on the West Virginia map in Figure 1. The institute sites and dates were as follows: .

Charleston Institute: June 19 - June 23
Princeton Institute: June 26 - June 30
Glen Date Institute: July 17 - July 21
Keyser Institute: July 24 - July 28
Clarksburg Institute: August 7 - August 11



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TASK AND PROCESS

IN CAPEER EDUCATION

by

Thomas 1. Woodall

to the number relations or process phase of the project. Although technical in informational dom, onents are often highly functional and relevant, process process may intervene to minimize the potential effectiveness of the colort. In order to avoid this barrier to program implementation, a dual approach designed to focus on both human relations and technical skill elements was satisficat.

constitutes was devoted to gracing constitutes was devoted to gracing constitutes thus; helding, and communications. Experimental situations were, what we write the constitution to be involved in and form first participants to be involved in and form first participants.

And looking at proportions, the film time Eye of the policitary has addized. The cult of the policitary has addized. The cult of the policitary way. Career neutration for the policitary has a way as the utilization of the one tartana way way.

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Thomas n. Moodall and LeVene J. Olson, Lducation for Tealtry: Mi-Service Limining Lasion for Jac or Orientation in Jareer Education, number jon, West 1971-1971 (1997) 1972.

11

I. One-Way CEC Exercise

A. Background information on Career Education, Students in grade levels
K-6 receive occupational experiences through the existing subject areas of
social studies, mathematics, language arts, science, and fine arts. The
objective of career awareness education is to provide occupational and
educational experiences which will develop the student's skills, attitudes,
and knowledge and result in a greater awareness of the occupational options
available to the student in the world of work.

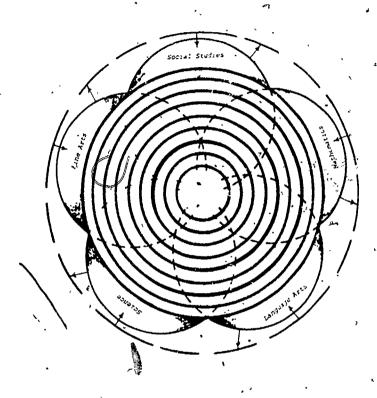
Through a process called curriculum correlation, occupational and educational experiences are introduced through a subject which is related to the occupation requirements (academic skills). The tudy of an occupation is introduced where interest can be stimulated.

The methods or techniques used to provide students with occupational knowledge and experiences are (1) Field experiences to business, industrial, and governmental institutions, (2) Simulation and/or hands-on activities of cognitive, affective, and psychomotor nature including paper and pencil simulation, role playing, and experiences with employers, (3) Manipulative activities such as painting, drawing, printing, seving, sawing, nammering, sanding, etc. (4) Resource role models representing the family, community, business, industry, and government, (5) Multi-media activities such as books, films, slides, visuals, audic tapes, video tapes, organizational publications, etc. (6) Ability and aptitude assessment of informal classroom activities and formal testing, (7) Guidance and counseling by classroom teachers on a daily basis and occasionally by school counselors, (8) Interpersonal interaction through lectures, discussions, panels, etc., and (9) occupational research in the classroom library and in the community.

- D. Piroctions For The Une-Way Excluses
- 1. Seloît :ne demonstrate, from each 6-10 participants.
- 2. Frevi Ruese amount trators with the background information. Allow time for a complete explanation, questions, answers, and isoussion of the CEC background.
- Divide the participants into groups of 6-10 people. Provide one descriptator for each group.
- .. Provide: jenoil and shoet of paper fir each particle ant in all product. Label the japer

The May CEC Exercise . Carter Avareness Buiti-Discipline Model, K-6

- 5. The groups are told that the demonstrator will provide thom with proceeding for drawing a series of circles. The participants are to reproduce these circles according to the directions given by the demonstrator.
- 5. The perturbants are n t to ask any questions or talk to any other near of the group.
- 7. The 1. metrater may not slow the particulants the drawings.
- if the two striker my it illustrate celetr nihips with his
- F.C.A. Ler the artifold into and demonstrators in a free-wood thorough the factor ins, all dominated and asked to proceed with theory the constructions.
- as provided. All groups shows finish prior to explaining the Circle Avancies Model
- 11. After all gloups have fireshod the one-way CEC Exercise, the dum's trater (in a group ofscuester ression) whows the participants page of the should draw out to some why the participants models to not to k like the one us. They the demonstrator. The discussion should be in terms of hew the furticipants feel about one-way communications.
- 12. Demonstrators may summarize with the following.
 - A. Che-Way communications is usually guider
 - B. One-Way communication is mainly less accurate.
 - C. One-May or minimization is a smally disturbing.



One-Way CEC Exercise

Career Awareness Multi-discipline Model, K-6

Note: The inner circles represent the teaching strategies or procedures utilized to provide realistic learning experiences. They are (1) ability and aptitude assessment, (2) field experiences, (3) guidance and counseling, (4) interpersonal interaction, (5) manipulative activities, (6) multi-media activities, (7) occupational research, (8) resource role models, and (9) simulation and/or hands-on experiences.

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II. Two-Way CEC Exercise

A. Background Information on Career Exploration (Cluster Concept)
In the lower high school levels, the cluster concept approach may
be utilized to provide entry level knowledge, skills, and attitudes
in a large number of occupations within selected clusters.

Criteria for the selection of an occupational cluster are as
follows: (1) The cluster should include occupations related in
terms of duties, materials, finished products, or services performed.

(2) The cluster should possess a large breadth of occupations
requiring various skills, attitudes, and knowledge.

The criteria for selecting occupations within the cluster are as follows: (1) The occupation should provide good future employment opportunities. (2) The occupation should provide for entry level employment after completion of one's formal education. (3) The occupation should allow for advancement through successful on-the-job-training or additional education. (4) The occupation should be of such a nature that numerous skills, attitudes, and knowledge are necessary for successful performance in the occupation.

Entry level tasks for the occupations meeting the above criteria are identified. The tasks are analyzed to determine the common elements in the areas of skills, attitudes, and information.

The commonalities (elements common to all of the occupations) are taught in the total group situation. The introduction of the cluster of occupations should begin with the commonalities. Following the introduction, students are divided into occupational groups within the cluster. After the student has experienced numerous activities

and developed some job entry skills, he moves to a second occupation.

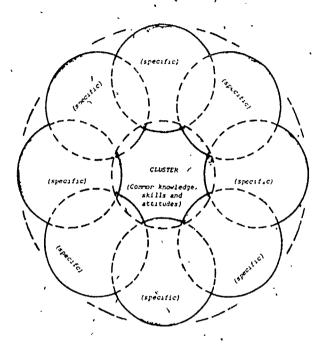
This rotation procedure is followed until the students have experienced activities in all of the occupations offered in a cluster.,

Individualized instructional packages may be utilized for selected occupations within the cluster. The instructional units should include behavioral objective(s), diagnostic instrument(s), learning activities, instructional resources, monitoring instrument(s), and achievement instruments.

B. Directions For The Two-Way CEC Exercise

- 1. Select one demonstrator from each, 6-10 participants.
- 2. Provide these demonstrators with the background information, allow time for a complete explanation, questions, answers, and discussion of the CEC Exercise.
- 3. Divide the participants into groups of 6-10 people. Provide one demonstrator for each group.
- 4. Provide a pencil and the table of paper for each participant in all groups. Label the paper. Two-Way CDC Exercise

 Career Exploration Cluster Concept Model, 9-12
- 5. The groups are told that the demonstrator will provide them with directions for drawing a series of circles. The participants are to reproduce these circles according to the directions given by the demonstrator.
- 6. The participants may ask as many questions as desired and the demonstrator can provide as many answers and as much detail as needed by the participants.
- 7. The demonstrator may not show the participants the drawings.
- 8. The demonstrator may illustrate relationships with his hands.
- 9: After the nurticipant, and demonstrators have reterived thorough instruction, all concentrators are asked to proceed with instructions for the two-way CEC Exercise
- 10. All groups should complete the two-way CEC Exercise as quickly as possible. All groups should finish prior to explaining the Career Exploration Model.
 - 11. After all groups have finished the two-way CEC Exercise, the demonstrator (in a group discussion session) views the participants papers. He should draw out reasons why the participants' models may look better than the ones drawn in the one-way CEC Exercise. The discussion should be in terms of how the participants feel about two-way communications as opposed to one way communications.



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Two-Way CEC Exercise

Career Exploration Cluster Concept Model, 9-12

Note: The inner circle represents the common elements found in a cluster of occupations. The outer circles represent specific occupations which require specific knowledge, skills, and attitudes.

CAREER EDUCATION PRINCIPLES

by LeVene A. Olson

Career Education is a process of systematically provided elementary, secondary, post-secondary, and adult learners with meaningful experiences in academic, general, and vocational subjects. These experiences focus on helping learners become viable individuals who are capable of making accurate choices concerning future careers.

To facilitate this process, the following principles are of major importance:

- 1. The value of academic skills and their relationship to career success and satisfaction must be vividly illustrated.
- 2. Complete and accurate self understanding with emphasis on the importance of career decisions must be continuously emphasized.
- The value, dignity, and importance of each learner must be continuously reinforced.
- 4. An activity centered functional approach to learning most be utilized to illustrate abstract theory.
- 5. An open environment which is student centered must permeate the classroom.
- 6. The cooperative interaction among people significant to the student must be encouraged.
- 7. The value, dignity, and importances of all work must be continuously emphasized.
- 8. The concept that occupations and careers are dynamic rather than static must be emphasized.
- 9. The relationship between sociological factors (leisure time activities) and occupations must be illustrated.
- 10. The value of acquiring entry-level occupational skills appropriate to the student's career objective must be emphasized.

CAREER EDUCATION-BOON OR BOONDOGGLE?

BY Alton C. Crews

Ebbs and flows of educational innovations rose and fell with our nation's social, economic and political concerns during the decade of the sixties. As we move into the seventh decade of the twentieth century, school people continue to analyze and ingest events of the recent past to determine their implications for the education of America's youth.

Emerging from the ferment of the sixties are several major educational thrusts that may well determine school decisions and expenditures for years to come. Identifiable influences that are emerging are: efforts to make public education more relevant and meaningful to the needs and interests of the learner; this, accompanied by a public clamor for increased effeciency in the operations of public schools, compose a dual mandate from the sometimes fickle citizenry that ultimately determine the tune that the educational fiddler produces. Pedagogical change, though widely acclaimed during the past decade, and frequently enticed by carrot-dangling federal financial incentives, may not have produced hoped for improvements.

Dysfunction of the public school's program is frequently credited with ailments that beset our society. Dropouts, vandalism, absenteeism, and excessive failures are symptomatic of the lack of relevance in school offerings. 'Many of today's graduates of the high school's "General and/or academic curriculum" are finding it increasingly difficult to secure employment. It is estimated that some 2½ million students each year terminate formal education through high school graduation, or college and high school dropout prior to graduation. Few of these young people possess

adequate skills to enable them to enter the labor market. Less than one of four high school graduates have been enrolled in vocational education programs. Perhaps then, those of us in education should not become indignant and defensive when the schools are accused of being dysfunctional and irrelevant for many of today's youth.

Unfortunately, we have drifted, either deliberately or inadvertently, into school programs referred to as college prep, or vocational. This pedagogical dichotomy has resulted in placing labels on youngsters with resulting value judgments - the college preparatory student_being prestigious and highly approved while the vocational student is tolerated but not held in the highest esteem. All too frequently the so-called vocational student is a reject from the college preparatory curriculum and comes to vocational preparation programs as a second choice with a bruised self-image. The age old complaint that vocational schools become "dumping grounds" for the ne'er-do-well academic reject, certainly has some validity. But, must this be so? Is it not possible to design school programs that provide students orderly, and prestigious path to the world of work much in the same fashion we now afford the college bound? After all, most able bodied and mentally capable persons will at some point in their lives assume the role of a producer of goods or services. For some, this entrance into the labor market will come when they drop out before high school graduation. While others will seek employment at the conclusion of high school, and a smaller group will begin their caleers at the conclusion of baccalaureate and post graduate college programs. But all have one thing in common - they go to work. Yet, much of our public school program fails to recognize this obvious fact, and continues to attemp to prepare an excessive number of



students for college as though this were an end within itself. These concerns have generated a growing interest in what has come to be known as Career Education.

Commissioner of Education, Sid Marland, generally considered to be the originator of the Career Education concept, has deliberately refused to define the term. Preferring instead, to let a definition emerge from the grass roots as programs spring up across the land. Commissioner Marland, has, however, characterized Career Education as an effort to "eliminate the separation of things vocational from things academic." Career education, according to Marland, is for the "attache case professions as well as the lunch box job holder." The artificial dichotomy labeling students as partakers of academic or vocational educational fare is removed. Darrel Ward and Edward Ferguson in a paper recently presented to the American Vocational Association defines Career Education as "an education plan for all students which fully integrates academic or basic knowledge and skills with the total spectrum of occupational preparation, thus providing relevance to all education by placing the central focus and emphasis upon preparation for life's career role." The U. S. Office of Education distinguishes Career Education from vocational education in the following manner: (1) Career education is a comprehensive educational program focused on careers. It begins with the entry of the child into a formal school program and continues into the adult years, (2) it involves all students, regardless of their post-secondary plans, (3) career education involves the entire school program and the resources of the community, (4) career education infuses the total school curriculum rather than providing discreet, high profile "career education" blocks forced into the curriculum, (5) it unites the

student, his parents, the school, the community, and employers in a cooperative educational venture, (6) career education provides the student with information and experiences representing the entire world of work, (7) it supports the student from initial career awareness, to career exploration, career direction - setting, career preparation and placement, and provides for placement follow-through, including re-education if desired, (8) career education is not a synonym for vocational education; but, vocational preparation is an integral and important part of a total career education system.

If career education is to become operational, there seems little hope for it to assume the form of a new course to be forced into an already over-crowded curriculum. A more feasible curriculum strategy seems to be to infuse career education experiences and materials into existing subject content disciplines. Infusion can succeed where addition may lead to failure. Through the infusion process, the career education theme is carefully woven into the total fabric of the curriculum. Such a system will have a functional unity that can bring relevance to the curriculum that will serve both the learner and the society in which he lives. Only time will tell whether career educators are successful in their efforts.

In the Cobb County, Georgia Career Education model, the elementary part of the model proposes to teach an awareness of careers to students in grades 1 through 6. Role playing, simulation, field trips, resource persons, and hands on activities are employed as teaching methods in integrating career awareness concepts in all subject disciplines. Broad clusters of occupations, 15 in number, compose the content of the program. These occupational clusters are construction, manufacturing, transportation, according to the program of the program of

business and office, marketing and distribution, communications and media, hospitality and recreation, personal service, public service, health, consumer and homemaking, fine arts, and humanities. Local occupations from each cluster are studied by all students in activity units utilizing the techniques mentioned above. Again, it must be emphasized that awareness of and knowledge about occupations is the objective of the elementary career educational model.

Cobb County's middle school program is built around exploration and orientation, still little empahsis being placed on teaching specific vocational skills. Using industry and businesses in the community as learning laboratories, the student gets brief hands-on experiences and learns first-hand what working conditions are like for the worker on several jobs. In the intermediate school, the student narrows his exploration from 15 occupational clusters to 3 or 4 clusters in which he has specific interests. Job visitation and exploration is accompanied by group guidance activities designed to acquaint the learner with his own career interest, aspirations, and aptitudes. Economic awareness of the free-enterprise system and skills in decision making are provided in the middle school program.

Exposed to career awareness programs in the elementary schools and provided exploratory work experience in the middle school, the student now progresses to the senior high school where he is given the option of job preparation program. Subject areas are tied in with occupational information in one or more clusters of work. At the conclusion of the preparation program, the school provides aid in job placement, enrollment in baccalaureate programs, or continuation in post-high school technical training. Such a structural sequence of learning activities spanning awareness in the early grades, exploration in the middle grades and

preparation for work or further training, along with job placement in the senior high school, seems to offer the humane path to the world of work that was mentioned at the outset of this presentation as being one of the desirable objectives of career education.

Re-training teachers and producing or securing appropriate teaching materials are essential first tasks in tooling up for career education. It has been Cobb County's experience that preparing elementary teachers to fulfill their new role has proven to be more successful than has efforts to re-direct the teaching process of the subject-centered secondary teacher. Motivating guidance couselors to devote as much time to placing students on jobs as they do in helping them gain college entrance may pose an obstacle. Removing clerical and administrative minutia from the counselors list of responsibilities has aided, however, in inducing couselors to provide job placement services.

Initial or "start-up" cost for implementing career education constitutes a significant outlay of funds. Once this financial hurdle is crossed, however, operational costs exceed only slightly traditional program costs.

Once teachers are trained, materials purchased or developed, and vocational preparation courses broadened to include most students, only the latter continues as an expanded cost.

Certainly, one who would venture out onto the uncharted seas of career education may find himself the target of critics who would label him as anti-intellectual. Proponents of the traditional classic academic curriculum will be quick to claim that academic vigor and intellectual vigor are being sacrificed on the altar of pragmatism. Cobb's experience,

though of short duration, does not support this contention. Some will question the federal intrusion into curriculum planning, since the U. S. Office of Education has been the principal proponent and a major fund supplier for early career education efforts. A word of caution to the school administrator who is reluctant to give up decision-making prerogatives. Since the community servies as a laboratory in career education programs, the buisnessman, the entrepreneur, and the doctor, lawyer, and Indian Chief, must be taken into parternship in the educational process. No longer can the school administrator, alone, make the educational decision. Finally, can and will the community serve continually as an educational laboratory? Will local Eusinesses and industries be willing to provide its facilities and personnel on a permanent basis to the career education program? Again, only time will tell if the private sector of the economy is willing and able to shoulder this new responsibility.

CAREER EDUCATION - A boon or boondoggle? Is career education truly an educational reform movement, or just another of a long list of educational fads that will fade quietly into oblivion after having its brief fling? Many think not. Certain conditions exist that cause many to believe that career education is a durable and lasting concept that will eventually change the public school program in a significant manner. The move to make career awareness a common learning for all has widespread public support. The purposelessness that characterizes so much of our school program is forcing educators to seek curriculum relevancy. Certainly career education is in the early stages of metamorphosis and has not yet assumed its final shape. Bits and pieces exist in hundreds of school decicts across America. These must be field tested, evaluated and synthesized into a workable whole before



the claim that career education is an educational reformation holds any validity. Yet, at the same time, career education just possibly could be the vehicle that will bring a badly needed restructuring of the public schools program. Let's at least give it a reasonable chance to be an educational boon, rather than hastily relegating it to the boundoggle scrap-pile.

THE LINCOLN COUNTY EXEMPLARY MODEL

by Herbert B. Holstein

This paper describes the Exemplary Program conducted in Lincoln

County, West Virginia. Specifically, this paper addresses itself to the

following topics: goals, objectives, assimilation, program levels, supportive services, inservice training, community services, vocational preparation, evaluation, and clusters.

GOAL NUMBER ONE

To provide broad occupational orientation at the elementary and secondary school levels so as to increase student awareness of the range of options open to them in the world of work.

Career Awareness

General Objective

To provide an instructional system designed to present occupational information to children in grades 1-6.

Specific Objectives

- (a) To provide students with occupational information to make them aware of the meaning of work and its importance to them and society.
- (b) To provide experiences in which the world of work is presented in a manner that is realistic and appropriate to the student's state of development.
- (c) To inform students about the multitudes of occupational opportunities.
- (d) To present to students a realistic view of the world of work and encourage them to consider their own abilities and limitations.
- (e) To provide students with basic information about major occupational fields.



- (f) To stress the dignity in work and the fact that every worker performs a useful function.
- (g) To visit local businesses and industries to get a first-hand view of the "world of work".

Career Orientation'

General Objective

To establish in grades 7-8 a curriculum which will assist the student to acquire such knowledge of the characteristics and function, the duties and rewards of the occupational families within which his choice will probably lie.

Specific Objectives

- (a) To give students an understanding of the knowledge and skills basic to the broad spectrum of the occupational families.
- -(b) To provide the student with a guide to educational and occupational requirements of different jobs. (occupational families)
- (c) To assist the student in acquiring a technique of analysis of occupational information and to analyze such information before making a tentative choice.
- (d) To stress habits and attitudes which are needed for successful and continued employment.
- (e) To provide students with experiences designed to develop an awareness and self-realization that leads to the selection of the appropriate career with realistic aspiration levels.

Career Exploration

General Objective

To provide students in grades 9-10 experiences that will enable them to make realistic occupational choices, experiences in working with others, and understanding of the psychological aspects of work as it relates to their con temperaments, personalities, and values.

Specific Objectives

- (a) To inform students about occupational and educational opportunities at all levels.
- (b) To provide students not finishing high school with information related to the opportunity to enter and occupational training program and/or employment.
- (c) To provide students with knowledge in broad fields of work which will assist the individual in making long range vocational plans.
- (d) To provide "hands on" experience in various occupational fields

 offered at the county vocational-technical education center.
- (e) To make the student aware of the continuous changes occurring

 in the world of work which necessitates continuing education or

 training in the various career areas.
- (f) To provide the student with information concerning other educational opportunities (colleges and other post-secondary programs).

GOAL NUMBER TWO

To provide work experience, cooperative education and similar programs making possible a wide variety of offerings in many occupational areas.

General Objective

To expand present and planned vocational program offerings to include (a) cooperative vocational programs to assist in removing the artificial barriers between education and work, and (b) work-study programs designed to assist in need of earnings from such programs to commence or continue their enrollment in vocational education programs.



Specific Objectives

- (a) To provide students with the background necessary to further their career preparation in post-secondary training programs.
- (b) To provide students with a salable skill necessary for job entry.
- (c) To provide students with skills, attitudes and work habits necessary for employment in a cluster of closely related occupations.
- (d) To increase student participation in programs due to broadened curriculum offerings made available through cooperative vocational education.
- (e) To provide economic assistance to those students in need of such assistance in order to remain in school and to continue their enrollment in vocational education programs.
- (f) To provide opportunities for learning by doing in actual work situations.

GOAL NUMBER THREE

To provide students not previously enrolled in vocational programs opportunities to receive job entry skills just prior to the time that they leave school.

GENERAL OBJECTIVE

To provide each student leaving school opportunities for appropriate training—to develop job entry skills necessary for employment.

- Specific Objectives
 - (a) To integrate vocational and academic instruction with an orientation toward job tompetence.
 - (b) To adapt the occupational level of skill training to the . . . abilities and aptitudes of the student.
 - (c) To provide intensive summer programs for entry level skill development.

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- (d) To provide opportunities for individually oriented vocational training.
- (e) To provide job orientation, work observation and on-the-job training activities
- (f) To provide job creation, job development, job placement, and job-coaching activities.
- To provide ungraded instruction complimented with specialized, technically competent instructors and anstructional packages, to assist students in completing the instructional program on an intensified basis.

GOAL NUMBER- FOUR

To provide intensive occupational guidance and counseling during the last years of school and for initial placement of all students at the completion of their schooling.

General Objective

To provide intensive vocational counseling for occupational and educational decision-making and job placement services for students who are dropping out of school and those in grades eleven and twelve.

Specific Objectives

- themselves, ways of working with others, and psychological aspects of Jobs as they relate to their values; personalities, aptitudes, and abilities.
- (b) To provide students with information regarding post-secondary career development opportunities.
- (c) To provide opportunities for students to relate occupational aspirations to educational goals.
- (d) To provide students with opportunities to develop understanding of and make realistic career choices



(e) To provide students with assistance in finding their first job.

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replacement on different jobs, remarks into training programs,
and participation in individual counseling and group occupational
guidance.

Assimilation into the Existing Structure

The task for to assimilation into the existing educational structure included employing and training of professional personnel, conducting workshops and intervice training for teachers and administrators, the curriculum, testing and advising students, developing curriculum materials, establishing schedules, securing work stations, and performing other activities related to administration and supervision. Nithin the Lincoln County school system, the model adopted for the reorganized curriculum may be considered innovative. As such, Havelock's midel for planned change was adopted.

As one strategy for installation, exemplary staff identified social systems within the county with particular emphasis upon the communication frequency and contact between individual families. The purpose of studying this aspect of the county was to partify the educational, political, econ nomic, and social leaders. Educational leaders were asked to meet early in the discussions in order to assist in the change in the theoretical framework for the new curriculum design. The following sequence of steps have been followed:

Royald G. Havelock, A Guide to Innovation. University of Michigan, History 2C, 1971.

- (1) Identification of legitimizers
- (2) Meetings with legitimizers
- (3) Meetings of all teathers, supervisors, and administrators
- (4) Identification training needs
- Development committees to study needed curriculum, guides, materials and schedules by grade (45.6) groups:
- workshop held to: teachers and plant pais in seven pilot schools when the Carset Edu artor ling am was instituted this fall. The workshop ficilitated program assimilation through focusing to team building and rgingsarioral development.

 Cleation, teaching units, torrelation and blanding of academic subjects into a career awareness tonus, and planning and administrative contingencies

The implementation strategy also it. Lived a sequential phasing in of the dazeer education consept, with grades 1-6 hours involed in the fall of 1971, grades 1-8 scheduled for spring. Page 2, and grades 9-12 being brought in at the beginning of the 1972-13 school term

Caleer, Awateness

The edutational program for the first and second grades begins with the immediate environment and gramped and programs to encompass the larger community environment. The first grade whild is introduced to the world of work by investigating family. This is routeward by studying workers with whom he comes in contact. The second grader is introduced to new and different kinds of workers in the community, those workers not in his family or at school.



Les Laws, "Elementary Glids to Date . Divergo not Grades 1-4" Spearman Patric. Suncole, Spearman, Texas, June 1907 p. 17.

The educational program for grades 3 through 6 is designed to increase occupational horizons from the immediate environment to the larger community. Comparing and contrasting occupations in the immediate area to those found in other communities provide the child with an opportunity to become aware of the encompassing nature of work.

The activities learning approach continues to be the principal method of concept development for the active youngsters. Each concept is presented and re-enforced through meaningful activities suited to the physical and mental maturity of the child in grades 3 through 6. In classes with high levels of deviation, such as handicapped and disadvantaged students, adjustments are necessary to facilitate internalizing functional occupational concepts.

The third grade continues the lower primary approach of total and small group activities under the leadership of the teacher. The fourth grader's efforts and interests are integrated into activity-planning providing for individual differences. The curriculum in grades 5 through 6 will include instruction and experience that will enable the students to develop positive attitudes toward work, identify and choose goals for themselves, and study occupational areas in which they are interested.

Career Orientation

The curriculum in grades 7 and 8 designed to give students a knowledge of the characteristics and functions, duties and rewards of specific clusters within a broad spectrum of occupational families. Youth at this age level have rather specific characteristics which suggest certain needs. For example, they have not had opportunities to explore their capabilities in



Slee Laws, p. 87.

their capabilities in various areas under a variety of situations; therefore, they need opportunities to self-appraise their emerging potentials, to analyze occupational information for decisions making, to understand the importance of all types of work, and to learn the educational and occupational requirements of different jobs.

The curriculum organization in grades 7 and 8 will be characterized by studying occupational clusters across content areas. In addition to integrating the entire curriculum at the grades 7 and 2 around career orientation, two hours per week in the eighth grade will be used in studying the selected occupational clusters. These courses are to be taught by present teachers at the seventh and eighth grade levels.

Career Exploration

The curriculum in grades 9 and 10 is characterized as exploratory. This involves exposure to actual work situations and hopefully, hands on experiences may be provided that are related to specific occupational clusters. The instructional material will be organized into units for more extensive study. Units for grades 9 and 10 will be selected from broad occupational areas.

Career Preparation

in grades 11 and 12; (1) cooperative work experience, (2) specific vocational courses, and (3) pre-prefessional courses. The cooperative work experience will provide work stations in business and industry with related studies in the high school setting. The specific vocational courses will provide for study in specific content areas with the innovative opportunities for job "spin-off" at all levels within the occupational

The pre-professional courses will provide laboratory settings in which salable skills will be practiced. All courses will be planned to provide for students with varying levels of learning abilities.

Intensive Guidance and Skill Development

For potential dropouts, dropouts, and high school graduates who have not acquired salable skills, provisions will be made for intensive guidance, and skill development may be provided in summer class s or other times during the year appropriate to student needs. A continued assessment will be made of labor market trends in the area of occupational changes through the Department of Labor (West Virginia Employment Security Service). The guidance and skill development will be held to a high correlation with job potential.

Following this intensive guidance and skill development, a follow-up study will be conducted on the job with counseling and job development training. Since Lincoln County traditionally is an area of high out migration, contracts will be negotiated with other school districts to make the necessary follow-up of students employed in other counties, regions, and states when such units provide these services.

Curriculum

The curriculum has become much more experience based providing students with opportunities for field experiences, simulations of occupations, contact with actual role models of various occupational persons, and access to a wide variety of multi-media occupational information. A curriculum blending approach has been taken, with the traditional academic subject matter areas organized around a career education theme, and using team teaching as a vehicle for implementation. The Lincoln County Career



Career Awareness Curriculum Model emphasizes the student's entering
the program at any given point among the academic alternatives and career
education elements on the basis of the results of his contact with a
diagnostic instrument which assesses his occupational knowledge, skill,
and attitudes. Throughout his involvement he will have an opportunity
to assess his acquisition of occupational knowledge skills and attitudes.
Throughout his involvement he will have an opportunity to assess his
acquisition of occupational knowledge skills and attitudes through the
use of Achievement Instruments which will aid in identifying his abilities,
aptitudes, needs, likes, dislikes, fears, interests, feelings, and values,
with an opportunity for modification or re-cycling of his involvement in
the curriculum if appropriate. Flexibility, involvement, and experience
are the key elements in the current curriculum approach.

Supportive Services

The program has basicly five segments.

(1) Career awareness activities in grades 1-6. This segment can utilize a number of supportive services from within the structure of the Lincoln County School System, such as the health and social services furnished by the ESEA Program, including eye care, remedial health services, and counseling and guidance on health, social, personal and educational concerns. Also for the disadvantaged, linkages with the Department of Welfare will make that agencies resources accessible. The full range of multi-media occupational materials housed in the Lincoln County Demonstration Center will also be available for use by elementary students. Also available for use will be a wide range of businesses and organizations which will provide resource persons and field trip visitation sites.

Board of Education school buses have been made available for field trip transportation.



(2) Core commerces activities in grades 7-8. All the support to activities and guidance personnel and guidance all the provided to acquire a uncoloure of the characteristics and functions, the future and remarks of the obsupational families within for all probably lie.

(3) Carrie apple which an erales 9-10. The Lincoln County Vocation in the line of the pointer will offer facilities for students to obtain "hands or explored in various occupational fields. USEA guidance personnel will are also the and students to obtain experiences that will enable them to be allowed the computed allowed experiences in working with others, and the late and limit psychological aspects of work as it related to their own temperaments, personalities, and values.

- intensified occupational quidence, counseling, and job placement.

 activities for those students who desire to enter work at the termination of the reduct. This segment of the program will utilize businesses and eigenization on the community who will provide cooperative work settings including a ignborhood youth corps programs and anti-poverty agencies.

 Journal of activities can utilize the resources of the West Virginia Depoint of the limit of the limit
- (5) Intensified skill development activities for those students are not proviously been enrolled in a vocational program and who have chosen to terminate their formal education. One of the primary supportive services off rodly the segment will be the resources of the Department of Employment Security, who will make a continued assessment of the labor.

market trends in the area of occupational changes so that guidance and skill development can be held to a high correlation with job potential.

Inservice Training

Those elementary school teachers already involved in the program on a pilot basis, were involved in a week long Inservice Training Session August 16-20. The workshop focused on an overview of the purpose and rationale for career education, team building, and organizational development, consulting skills, and development of objectives, curriculum and methodology by grade levels.

The first day of the workshop, which ran for six hours daily, was devoted to staff and group development, team building and the creation of a consultative helping relationship between project coordinators and participating teachers. The framework for this session was a sequential group building process which took all participants through four basic stages of team development, from getting acquainted and trust building, to the formation of helping relationships, and finally group coloboration on a common task. Through the use of a modified laboratory training approach participants were divided into four groups, each with a leader trained in group dynamics. Experiental situations were created which allowed participants to be involved in, and learn first-hand about effective communication, consulting, problem sciving, planning, feedback, gr up decision making, and team work.

The second day a model of career education was presented in the total group by Dr. Levene A. Olson with reaction and discussion following in the



small groups that were built the first day. The model emphasized a sequential approach with first graders learning about occupations in the immediate family, and each grade broadening its perspective until sixth graders would be studying the interdependence of occupations on a world wide basis. Junior high orientation and exploration would lead to specific choices at the senior high level followed by post high school technical training, a job, or continued academic training. Also on the second day Mr. Joel Smith from a similar project already in operation shared experiences and insights gained from the efforts of he and his staff. Again, the cohesive, unified groups created during the first day were able to share effectively the application of this presentation to implementation of the project in Lincoln County Schools.

On Wednesday, each of the four groups went through the process of developing a Career Awareness Unit that could be used in the classroom, culminating in a role playing situation, in which the groups simulated typical roles played by the occupational persons on which the units focused. Each group observed the others in their role playing efforts, and then offered constructive feedback on positive and negative elements noted.

Thursday's session opened ith a lecturette (short Lecture) to the series of the property of the lecture of the property of the inclusion of academic subjects, identification and study of related occupations, and classroom simulation of the occupation including role playing and manipulative activity. The remainder of Thursday was spent with teachers divided by grade level developing actual units for use in the classroom during the



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Exemploy staff weathers have a two news of the HTP and a vice to formal and enformal as two stages with 1 ..., going, when a cover to the cuttinent g. is a Various argentage and an entering a service of the provide occupation are two contents of the classification in the classification in the classification in the cuttines of the utilized continuously and and a supplementary of the property of the contents of the continuously and and a supplementary of the content of

resources for work experience and cooperative of cation work stations is planned to cultivate community support and acceptance of the project, thus assuring its continuation beyond the time frame presently allocated

Vocacional Preparation

The Career Awareness Curriculum in grades 1-6 will expose students to the groad range of occupational possibilities, with emphasis on the development of positive attitudes toward work, and enabling students to identify a choose goals for themselves, and study occupational areas in which may are interested. As the student moves into junior and senior high school the program will ome — ze more directly job preparation. The curriculum organization in grades 7-8 will be characterized by studying occupational clusters areas.

The emphasis on job preparation will intensify in the 9th and 10th) grades. At these levels the curriculum is characterized as exploratory. This involves exposure to actual work situations and hopefully, "hands on" experiences may be provided that are related to specific occupational clusters. The instructional material will be organized into units for more extensive study.

ment will aid in job preparation; (1) con grative work experience, (2) specified vocational courses, and (3) pre-professional courses. The cooperative work experience will provide work stations in business and industry with related studies in the high school setting. The specific vocational courses will provide for study in specific content areas with the innovative opportunities for job "spin-off" at all levels within the occupational cluster. The pre-professional courses will provide laboratory settings in which saleable skills will be practiced.



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An additional feature of the job; ration aspect of the program will be intensive guidance and skill development in grades nine through post-high school. For potential droid, droped, and high school graduates who have not acquired salable skills, provisions will be made for intensive guidance, followed by intensive skill development. This preparation, guidance, and skill development may be provided in summer classes or other times during the year to meet student in the summer classes or other times during the year to meet student in the summer classes or other times during the year to meet student in the summer classes or other times during the year to meet student in the summer classes or other times during the year to meet student in the summer classes or other times during the year to meet student in the summer classes.

Evaluation

The following occupational clusters are utiliz in grades seven through twelve with reference been made to them by the toschers of the elementary level.

- 1. Igri-business and Natural Resources Occupations
- 2. Communication and Media Coupations
- 3 Construction Occupations
- 4. Consumer and Bomersking Occupations

- 5. Environmental Occupations
- 6. Fine Arts and Humanities Occupations
- 7. Health Occupations
- 8. Hospitalicy and Recreation Occupations
- 9. Manufacturing Occupations
- 10. Marine Science Occupations
- 11. Marketing and Distribution Occupations
- 12. Office Occupations
- 13. Personal Service Occupations
- 14. Public Service Occupations
- 15. Transportation Occupations

Criteria of Different els

Professional

- 1. Important Punction
- 2. Independent
- .3. Variod Responsibility
- 4. Dowls with policy making and interpretation
- 5. High level of education where relevant

Semi-Professional and Managerial

- 1. Some Independence
- 2. Varied Responsibility
- 3. Policy Interpretation
- 4. High level of education where relevant

Technical and Skilled

- 1. Some variation in responsibility
- 2. Some policy interpretation and decision making
- 3 Special training, apprenticestup and/or experience
- 4 Knowledgeable in a particular still or area

Semi-Skilled

- 1. Little or no responsibility
- 2 Some special training, apprentic ship and/or experience

Unskilled

1. No special training and/or skill

Herbert B. Hogstein, Billy Corto. The Walkins, and Thomas E. Woodall, Lincoln Court, Errorial Property Cartional Education Using the Occupational Charles Carter Citentation (Hamlin, West Virginia: Lincoln Count; Sc., 21s. 1972), pp. 2-52.

Simulated or Work Experience for Agri-Business and Natural Resources Occupational Cluster

Gather & classify geo------Geoglist: Professional----logical material from surrounding area. Semi-Professional and -----Soil Scientiest: Collect, test, and Managerial----classify soils from surrounding area. Using Cooperative Exten ion Service for guidance. Technical and Skilled------Landscape Technician: Draw & design landscape area for part of the school area. 'Raise & care for plants and flowers in school area. Could use the organic method for this. Care for lawn and -Caretaker: Unskilled--

grounds at local school and other local civic areas.

AGRI-BUSINESS OCCUPATIONS

'Professional

Agricultural Economist
Agricultural Engineer
Crop Scientist
Wildlife Manager
Geologist
County Agent
Soil Scientist

Semi-Professional and Managerial

Agricultural Communications & Public Resation Worker Rancher
Seismograph Computer
Spectroscopist
Smoke Tester
Air Analyst
Food Technologist

Technical and Skilled

Forest Technician
Dairy Technologist
Dairy Farmer
Coal Miner
Farmer
Inspector
Nurseryman
Tree Surgeon
Butchel
Animal Trainer
Salesman

Semi-Skilled

Dairy Industry Worker Mining Worker Game Warden

Unskilled

Cowboy
Farm Laborer
Meat Packer
Saw Fill Worker
Poultryman
Gardener
Greenskeeper
Logger



Simulated or Work Experience for Communication and Media Occupational Cluster

Professional --- Editor: Responsible for producing school paper.

Semi-Professional --- --- Manager: Assigning different work roles to people involved in gathering the news.

Technical and Skilled --- --- Reporter: Writing up nows as you observed it in your assigned role.

Semi-Skilled --- --- Pressman: Running paper off school press.

Unskilled...

Selling school paper

Profession 1

Product
Director
Editor (film & paper)
Actors
Actress
Writer

Semi-Professional and Managerial

Radio-Television Announcer
importor
Program Director
Public Affairs Director
Journalist
Artist
Cartoonisc

Technical and Skilled

Broadc: Technician
ble Tricer
Operator
Lineman
Disk Jockey
Photographer
Audio Engineer
Cameraman
Reporter

Semi Skilled

Compositors
Printing Pressman
Copyvriters
Telephone Installers
Telephone Operators
Teletype Operators
Radio-Television Serviceman
Jobber
Lay L Man
Merse Operator
Telefax Clerk
Engravers
Typesetters
Projectionist
Salesman

One (LL 181

Temporer Vendor
Not spaper Currier
Fundice St. Lities vorker
We trobe mistress
From In
Wireparts Openior

5 _

Simulated or Work Experience for Construction Occupational Cluster

Draw plans with specifications for local facilities.

Gather informatic: ... material costs and ustimate total costs of specific building.

Technical and Skilled-----Carpenter:

Construct table or bookcase for career project materials revelant to that particular need.

Assist the carpenter in all of his functions.

 Help semi-skilled and skilled workers in their different construction occupations.



CONTRACTION OCCUMING S

υĎ

Professional

Civil Engineer Architect Aeronautical Engineer

Semi-Professional and Managerial

Bur lding Contractor Surveyor Draft Smid

Technical and Shillod

Cost Bolimator Salesman of Adorials Building/sito Inspector Z. gincering Assistant Foreman . . C rpenter Plumber Electrician Pipelitter Rivereter Brice ascn "mon/structural Steel Worker Roofer Glazini Stone Jason Wolcor Facilinary Operator Plaste or

Beri S Illod

Bricklayers Tender'

Dilat

Greasor

Paper ango

Dideal Machanic

Const uction Telpans

F/ort Covering Instaliers

Unaxil/led

|Laborer |Scaffoldman |Hed Carrier |-igger

Simulated or Work Experience for Consumer and Homemaking Occupational Cluster

Do planning and buy------Manager: Professionaling of supplies for the school lunch program. Semi -Professional Flan balanced menues , and Managerial-----Dietician: for the school hot lunch program. Preparing school . Technical and Skilled ----lunches. in preparing the school lunches. Unskilled----- Dishwasher: Assist school lunch personnel in caring for the cafeteria.

CONSUMER HOME ECONOMICS OCCUPATIONS

Professional

Nutritionist
Dietician
County Home Economist
Research Economist

Semi-Professional and Managerial

Executive Mousekeeper
Chef
Manager of Cafeteria
Pood Products Tester
Home Service Representative
Food Inspector
Manager

Technical and Skilled

Baker
Tailo: "
Seamstress
Garment Examiner
Garment Inspector
Director of School Lunch Programs
Plant Hostess
Kitchen Supervisor
Home Lightning Demonstrator

Semi-S'i'l d

Cook
Clothing Maintenance Specialist
Caterer
Wardrobe Speciality Worker
Wardrobe Mistress
Cutter
Checker

Unskilled

Waiter
Waitress
Child Carc Attendant
Nursemaid
Helper (cook's)
Housekeeper
Dishwasher



Simulated or Work Experience for Environmental Occupational Cluster

Professional-----Botonist:

Study and classify plant life in the area and how these affect ecological balance of nature.

Semi-Professional and-----Park Ranger: Managerial

Help manage recreational facilities of the school. Could promote campaign to help prevent forest fires and stop litter. Work with civic people in Keeping America Beautiful.

Technical and Skilled-----Tree Surgeon:

Could assist local citizens in care and management of trees in the protection against insects and pests. Work with local conservation officials.

Semi-Skilled------Tree Trimmer:

Work with local citizens in doing light tree trimming work.

Unskilled------Forestry Aid:

Help map and blaze out "ature trail by working ith local forestry officials.

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ENVIRONMENTAL OCCUPATIONS

Professional

City Planner Ecologist Geologist ' Geo-Physicist Oceanographer Physicist Chemist Astronomer Palentologist Biochemist Meteriologist Potonist Zoologist Geneticist Anthropologist Landscape Architect

Semi-Professional and Managerial

Park Ranger Forester Game Warden Conservationist

Technical and Skilled

Technician Science Writer Technical Writer Fire Fighters (Forest) Trec Surgeon

Semi-Skilled

Tree Tringer Wildlike Manager Fisherman Lumberman Pest Control Operators

Unskilleð

.Animal Keeper Forestary Aides



Simulated or Work Experience for Fine Arts and Humanities Occupational Cluster

Professional-------Actor-Actress:

Act i class or school productions. Take part in civic productions.

Semi-Professional and

Managerial-----Interior Designer:

Plan, design, and decorate the interior of school classrooms teachers lounge, or students individual room in their own residence.

Technical and Skilled-----Sound Technician:

Setting up different audio-visual equipment for different school activities to insure the best sound possible.

Semi-Skilled------Property Aide:

Obtaining and taking care of different types of equipment used in school activities.

Unskilled------Stage Hand:

'Make sure that every' thing is in its proper place for school activities.

Ε,

Profess.onal

Conductor
Band Director
Curator
Instrumentalist
Composer
Opera & Concert Singer
Ballet Dancer
Artist
Producer
Playwrite
Actors
Actress
Director

Semi-Professional and Managerial

Teacher
Dancer
Film Writer
Singer
Interior Designer
Script Writer
Free Lance Writer
Linguisticist

Technical and Skilled

Cheeriographer
Film Editor
Photographer
Fashion Designer
Commercial Artist
Cartoonist
Set Designer
Technicians

Semi-Skilled

Cameramen Assistant Technicians Instrument Tuner Property Aide

Unskilled

Stagehand Usher

Simulated or Work Experiences for Health Occupational Cluster

Professional-----Dietitien

Help with the management and food service activities of the school caseteria.

Semi-Professional and

Technical and Skilled-----Practical Nurse: Visit on a weekly basis on elderly person in the community where they could care in general for the, person's welfare.

Semi-Skilled-----Nursing Aid:.

Work with the kindergarten children.

Unskilled-----Orderly: .

Help keep things clean in the kindergarten,

Hospital Administrator Surgeon Physician Dentist Voter narian Nursing Administrator Pharmacist

Semi Professional and Hanagerial

Dieliti n
Fagistor TMLr :
Public Shalth Sanitarian
Social Workin
Speach & Sharing Thorapist
Sanitary Engineer
Denich Sygionist

Technical and Skilled

Dencal Assistant
Codegal Plustrator
Codegal Ford Librarian
Codegal Ford Librarian
Codegal Ford Ford Francis
Medical Tochnologist
Inhalacion Therapist
Licensed Practical Nurse

Semi Skilk 3

Laboratory Tochnician Laboratory Assisiont Practical Nurse Possonnel Worker Ambulance Attendant

Inskilled

Nursing Aidc Orderly, Janitor Garbageman Aubidanch Priver

Simulated or Work Experience for Hospitality and Recreation Occupational Cluster

Professional------------Athletic Director: Set up super-vised play---

Set up supervised play activities with elementary students.

Semi-Professional -----Athletic Coach: and Managerial

Coach team of students in activities or referee the activity.

Technical and Skilled------Athletic Official: Call the sport

Call the sport activities or referee the activity.

Semi-Skilled------ Keep accurate

report of the activity that is being done.

Unskilled------Caretaker

---Caretaker: Take care of the area where the activity is taking place.

Both b. ore and after the activity.

HOSPITALITY AND RECREATION OCCUPATIONS

Professional

Professional Athletics
Athletic Coaches
Hotel Managers
Motel Managers
Chef
Athletic Director

Semi-Professional and Managerial

Restaulant Manager
Theater Manager
Instructor
Athletic Director
Travel Counselor
Salesman

Technical and Skilled

Superintendent of Services Tourist Director Bar Tender Receptionist Cook Florist

Semi-Skilled

Travel Clerk
Desk Clerk
Camp Counselor
Wine Steward
Hotel Motel Workers
Motion Picture Projectionists
Bell Captain
Hostess
Waiter Captain
Carver
Charwomen,
Chamber Yaid
Time Keeper/Score Keeper

Simulated or Work Experience for Manufacturing Occupational Cluster.

Professional ---- -- Fashion Designer,

Design crothes in home conomic class

Semi-Professional and

Managerial--- -- Custom Tailor:

Make special garments to order which has ocen designed in the class.

Technical and Skilled - - ------Cutter:

Cut material from patterns which have been designed before hand

Semi-Skilled -- -- -- -- Operator:

Sewing cloth tog them which his been cut and numbered with hand Could set up an a min bly hind type of pication to speed up production.

Unskilled...-- Packer

Fold, pack and label or garment which have been made in class

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Simulated or Work Experience for Marine Science Occupational Cluster

Professional-----Ship Designer:

Work on models with emphasis on sketches, specifications, scale drawings, and fullsized drawings of the entire ship.

Semi-Professional and Managerial----Ship Builder:

Do various occupations concerning building models; such as painting or various other types of skilled work.

Technical and Skilled-----Ship Fitter:

Fitting pieces of the model together, as indicated on the blue-print.

Semi-Skilled---- calkers:

Tighten seams and join to make them watertight and airtight of the model.

Unskilled------Marina Worker:

Tending and taking care of the models which have been built by other students.

MARINE SCIENCE OCCUPATIONS

Professional

Oceanographer
Ship Designer
Engineer

Ecologist (Marine Zoologicalist (Marine) Microbiologicalist (Marine) Botonist (Marine)

Somi-Professional and Managerial

Junior Engineer
Ship Builder
Laboratory Manager

Technical and Skilled

Diver
Machinist Foreman
Ship Fitter
Instrument Maker
Mechanic
Marine Plant Grower
Fish Hatcher & Raiser

Laboratory Technician Dredger (Off Shore) Driller (Off Shore) Life Guard Ocean Fisherman

Semi-Skilled

Fisherman
Ship Builder
Apprentice Machinist
Motor Boat Mechanic
Gear Man
Calker

Scafood Processer Scafood Packer

Unskilled

Marina Attendant Motorboat Mechanic Helper Machinist Helper Lookout Simulated or Work Experience for Marketing and Distribution Occupational Cluster

Professional-----Manager:

Establish a cooperation which can be further developed into a school store.

Semi-Professional

and Managerial----Buyer:

Buy items that can be later sold in the store that serves in school supplies for the student body.

Technical & Skilled------Displayer:

Displays merchandise so that it will attract attention and sell.

Semi-Skilled------Salesperson:

Works in the store selling different items.

Unskilled----Stock Personnel: Takes care and inventory of all stock in the

store.

ERIC

MARKETING AND DISTRIBUTION OCCUPATIONS

Professional

Bank President Planning Administrator Public Relations Worker

Semi-Professional and Managerial

Store Manager
Fashion Designer
Store Owner (Merchant)
Newspaper Reporter
Administration Manager
Advertising Account Executive
System Analysts
Buyers
Broker
Escrow Officer

Technical and Skilled

Department Manager
Auctioneer
Instrance Agent
Manufacturing Salesman
Radio-TV Time Salesman
Travel Agent
Rear Estate Agent
Bank Teiler
Adjuster
Model
Salesman
Statistican
Technologist

Semi-Skilled

Retail Salesman Cashier Checkel Interviewer Clerks Roltemen Stock Pricer

Unskilled

Stock Personnel
Lide Comparison Snopper (Buyer)
Inventory 'Stock'
Cledit Collector
Shipping Clerk
Delivery Boy
Packer



Simulated or work Experience For Office Occupational Cluster .

Professional--- - - - -- Manager: Practice sets in General Business or Office Administration. Can keep set of books for the store which * would be s . up in market ing and distribution. Semi Professional and Hanagerial --- -- -- --- --- Cashier: Work with money that would go through the store or office of the school. Tochnical and Thellod ------Typist: Type materials for the school or correspondence for a store. (Gameral typing work) Sem: -Sk: 11. 7. - --Filing correspondence portaining to school administration. Taking messages to different personnel within the school

building.

OFFICE OCCUPATIONS

Professional

Office Danager
Auditor
Cerrified Dublic Accountant
Statistician
Accuacy

Semi-Professional and Managerial

Book Editor
Programmer '
Account Executive
Accountant
Cash.er

Technical and Skilled

Paymaster
Buyer
Secretary
Court Reporter
Brokkeeper
Stennylapher
Data Processing Operator
Bank Clork
Typist
Bstimitor
Legal Secretary
Copy Writers

Semi-Skilled.

Office Machine Operator
Telecype Operator
Library Technician
Tape Librarian
Hotel Clerk
Shipping Clerk
Switchboard Operator
Machine Operators

Unskilled

Sorter
Marker
Addresser
File Clerk
Credit Clerk
Messenger
Office Boy or Girl



Simulated or Worl Expérience For Personal

Service Occupational Cluster '''

Professional --- -- Director:

voit up veight control clinic and general health care climic in the school for anyistudent who would care to enrol1.

Semi Drofessional and Panagerial.

-- Food Scobnolog: st: Plan talks and demonstrations concerning foods to eat and still maintain

halanced meal

Technical and Shidled --- - Technician:

~ Discuss and show methods of avoiding skin conditions by not cating proper types and amounts of foor.

Semi-Shillor

- Nauroni

Predict Woigning the proper amount of feet se . that huran body cets the right around of calories

Lear group in certain basi'c owercises to keep muscles in tone and in shape.*

*All of the above flould work closely with the low common to teather and county K. a. S. mur. C. . .

. Protesero at

Rappi

Clergym

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Lawyer

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Unskilled

Service Station Attendant
Houseman
Caretaker
Farking Attendent
Grave Digger
Laundry Worker
Valet
Baggageman
Ironer
Presser
Exerciser

Simulated or Work Experience for Public Servide:

-City 'Administrator:

Occupational Cluster

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· /
Semi-Professional "
and ManagerialCity Manager:
•
Technical and SkilledCity Planner:
. ~
*
Semi-SkilledTechnician:
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Unckalled

Plan and conduct activities such as meetings which would be similiar to those of a city.

Responsible for carry, ing out or seeing that the responsibilities are done.

Design things to improve the dity or area where the school is located.

Do things to improve the looks of the area that has been designed by others such as cleaning up local park.

Helping to see that everything is done by actual on the job experience

PUBLIC SERVICE OCCUPATIONS

Professional

C. ty Administration
Scologist
Counselor '
Judge
Psychometricist
Coilege Administrator
City Manager
Occupational Therapist
Parole Worker
Political Scientist
Secret Service Agent
School Superintendent

Semî-Professional and Managerial

Teacher
Sociál Worker
City Manager
Cooperative Extension Worker
Guidance Counselor
Internal Revenue Agent
Safety Engineer
Speech Correctionist

Technical and Skilled

Custom Inspector
Civil Service Worker
Policemar
Mailing Supervisor
Shipper
Fire Warden
Fireman
City Planner

Semi-Skilled

Postal Clerk
Guards *
Sheriff
Rural Mail Carrier *
Meter Reader
Technician

Untkilled

Mail Sorter Alarm System Worker Dot hman Washroom Artendant

Unskilled

ç'<u>;</u>

Garbage Collector
Laborer
Camera Girl
Elevator Operator
Grounds Keeper
Gardener
Maid
Doorman
Bus Boy
Waiter-Waitress
Caddy
Car Hop
Dishwasher
Bellman
Pack Clerk
Key Clerk
Mail Clerk
Red Cap



Simulated or Work Experience For Transportation Occupational Cluster

Professional-----Traffic Engineer:

Plan, design, and
develop traffic-control systems to prevent accidents, minimize congestion in the school, school activities and parking facilities of the school.

Semi-Professional and Managerial-----Station Managerial

Plan, design ind convelop parking as a for school personnel.

Technical are Skilled----Toll Collector.

cerponsibility for y
delling ticks. for
parling vehicl st
school.

Semi-Skilled-----Autômobile Medicade.

Chack school buses for bings as oil, atc.

Unskilled---- --- --- --- Service Station Attendant:

Chec pulty carsing the model of a second windshield and etc.

TRANSPORTATION OCCUPATIONS

Professional

Aerospace Engineer
Atrline Pilot
Airport Manager
Flight Engineer
Traffic, Engineer
Ship Captain
Train Engineer

Semi-Professional and Managerial

Helicopter Polot
Air Traffic Control
Chief Mate
Station Master
Pipe Line Superintendent

Technical and Skilled

Aerospace Technicians
Airline Dispatchers
Airline Stewardesses/Stewards
Traffic Agent
Air Mechanic
Brakeman
Driving İnstructor
Long Distance Truck Drivers
Ship Pılots
Dispatchers
Ticket Agent
Second Mate

Semi-Skilled

Auto Body ..epairman Auto Mechanic Airline Mechanic Busdriver · Merchant Seaman Railroad Telegrapher **Boatswain** Third Mate Purser Asbestos & Insulation Worker Assemblers Structural Workers Die Maker Tool Maker Repairman Iron & Steel Worker

Semi-Skilled

Leather Mfg. Worker
Sneet Metal Worker
Machine Operator
Pipefitter
Plumber
Seamstress
Gunsmith
Bracksmith

Unsbill.?

The Priver ' bugshoreman . threderes Track Worker C'auffeur 31acksmith Lubrication Man Casoline Station Attendant Ctility Man 7 | Collector Car Chacker Assembly Worker Book Binder Yardige Caller Canning, forker aning forter Dry Warehouse Checker Shipping Clerk Racelving Clark Laberers Maintenance Helper Snipper

INDUSTRIAL ARTS FOLE IN CARLER LEDUCATION by James F. *Snyder

Career education--what is it? Who is it for? How should it be implemented in the public schools? At what levels of school should it be implemented? These are questions that are commonly asked and you have heard some ideas already. I would like to attempt to answer these and other questions as I speak to you today.

What does career education do for children and adults? I would like to relate a story to illustrate what this concept can do for children: "While walking down the street with a friend one day, a teacher passed a large fish store where a fine catch of codfish. with mouths wide open and eyes staring, were arranged in a row. The teacher stopped, looked at them and clutching his friend by the arm exclaimed: 'Heavens, that reminds me--I should be teaching class!" The story points out the eagerness to learn as a result of a curriculum so filled with reletant material that children and adults are waiting to be taught more--eyes wide open and mouchs agape. It should not, however, be instituted lake the "fellow who put on a clean pair of so ks every day and by the end of the week, he couldn't get his shoes on." Career education is not meant to be another area of study to force upon teachers who are already overwhelmed with subject matter during the day. It is to encourage activity within the curriculum to provide meaning for what is being taught. It is not enough to say 'You will need this in your later studies'. There must be a now meaning for doing. The miner recognizes "pay dirt" as "ore-bearing rock" and if education is to produce "pay dirt" the curriculum must "bear some ore".

As I envision education I do not see career education as a new sign or slogan on the horizon. It has, however, risen its head to be singled out.



Since 1969, and even before, industrial arts educators have been asked questions related to". . . career development or preparation for cocupational competence as a part of the instruction in industrial arts corrses."

An Occupation Development" in 1969—recommended the replacement of the typical industrial arts program with an "occupational development curriculum" intended to provide exploratory experiences across the practical arts are to the junior high school. He advocated disc. Ing many of the traditional industrial arts objectives and emphasizing interest in occupations and the development of worthy lessure time interests. At the senior high school level he advocated a required program of occupational development, involving a work-study program, independent occupational studies, and small group activities. Under this plan, specific vocational training would be condited to the post-secondary level.

In 1970, Howard F. Nelson, in "Which Way Industrial Arts in the 70's",—
recommended modification of the existing senior high school program as nec s
sary to include information about and preparation for post-secondary incorput.on—
as programs. He suggested an emphasis upon the development of good habits of a
searning and working, the use of the community as a clusroom, and such prevolational learnings as adjustment to job demands, honesty, dependability,

Loywity, and flexibility "He argued that it was possible for industrial into
programs to meet such recommendations within the frame work of existing ofjectives, courses, and facilities."

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Curriculum Development in Industrial Ares Education, EPIC. Series 59, VI 014 273 p. 25. Ohio Plate University

²op cit p. 25-26

з прет р. 26

. -<u>:</u>

In 1971, Donald 3. Lux, while writing the article "A Call for Action", -took exception to Nelson's recommendations, and argued that the occupational
use of the body of knowledge identified as industrial arts is only one of
the many purposes to which the knowledge may be applied by the learner. He
indicated that industrial arts should serve technical, recreational, consumer,
cultural, and social purposes as well as occupational purposes in the occupational enterprise. Lux emphasized his position that occupational or vocational education is a purpose, not a body of knowledge; while industrial arts
is a body of knowledge which may be used for any of the six educational purposes he outlined.

Again, in 1971, the article "Teaching Industrial Arts in a Workaday World", John G. Bradley argued that instruction in industrial arts courses. could stimulate interest in future vocational pursuits. He went on to emphasize the need for practical instruction oriented to the value of work, dignity, and pride of accomplishment, and individual development. While Bradley did not recommend that industrial arts should assume the total spectrum of occupational preparation, he did indicate that industrial arts should provide an effective foundation for later, more specific vocational courses. 5

Grant Venn, in the article "On Industrial Arts and Vocational Education", urged industrial arts educators to expand their programs to provide the exploratory experiences needed to make a wise career choice and the basic skills useful in many occupational endeavors. The same time, he

⁴op cit p. 26

⁵op cit p. 26

indicated that industrial arts should continue to attempt to fultill its other objectives, especially the function of nurturing greativity 6

And finally Edward Kabakjian while writing, "A Polo to Play in "anpower Development" recommended the expansion of industrial arts programs,
as a means of providing a broad range of experiences at all educational
levels in order to reduce the dropout rate and improve the accuracy of
erect selection.

I have related this to you only to fllustrate the thinking that has taken place in industrial arts and continues to take place in our professional field.

We may ask why career education has risen at this time. Career Education, What It Is and How To Do It, by Kenneth B. Hoyt & others state two points in the rising favor:

"1. It has emerged at a moment when dissatisfaction with educational practices and outcomes are at a peak.

of the apparent sources of that dissatisfaction."

Or Sidney Marland, U. S. Commissioner of Education.expresses that career education is designed for all children at all grade levels and indicates it is the nucleus, not core because of misunderstandings, of all education. He states, "The fundamental concept of career education is that all educational experiences...should be geared to preparation for economic independence, personal fulfillment, and appreciation for the dignity of work."

^{6&}lt;sub>op</sub> cit p. 26

op cit p. 26

American Vocational Journal, Career Education. Every Student Meaded for a Goal, Dr. Sidney P. Marland, March 1972, p. 35.

Along this same thought E. Arthur Stunard, Effecting Change Through The Elementary Classroom Teacher: Institute Phase, mentions. "...technology can be a base from which to develop all areas of learning that might take place in the school environment. .. "He goes on to say, "...technology in the classroom provides a total learning environment that pulls on all areas of the established curriculum."

While much has been done on the upper levels of public schools in terms of industrial arts and career education, the elementary level is now gaining momentum. This is an important level of emphasis. The elementary grades serve as the awareness stage for career education in Commissioner Marland's blueprint. I will treat the entire curriculum plan, while presenting some models of an interdisciplinary approach, with much interest given to grades K-9. It is at this level a foundation will be established to allow for wise decision in terms of career choice. Career education should assist individuals in developing their unique possibilities as human beings to enhance their abilities to make a proper choice of work. The attitudes and values they develop will be very important. The established attitude of living in a technological society with all its obsolence and being able to adjust is vital.

To illustrate industrial arts in career education I wish to utilize the following transparencies:

- #1 The Curriculum Development--expand
- #2 Goals of Career Education in Relationship to Industrial Arts
- #3 Model of Career Education (I. A. Role)
- #4 My Concept of I. A. Role--Line drawing
- #5 Model depicting I. A. Based upon Preceding I. A. Concepts

Let us first explore the definition of the career education level and then pursue curriculum content of industrial arts. Awareness: Webster's 7th

ERIC Frontided by FRIG

New Collegiate Distinuary defines it as syn consists, somethis, states or qualities: Alive adds to sensible the specialize or of somethis, and is on the alert.

Industrial arts activities at the elementary school level serve many purposes. They help the child growing up in an industrial society to acquire firsthand knowledge of how materials are altered to better/serve the needs of people in that society. They also help the child to deal more effectively with variety of concrete media through the use of tools as extensions of himself. Industrial arts activities offer tasks of a technical nature which transcend the usual paper pencil orientod tasks of the classroom. They not only provide children with a prestor variety of activities in which to achieve success but also enable them to understand the diversary of human activit , within this context of understanding. he pichemito ry and develop their unique abilities In a sense this goal is vocational in the broadest possiblo way. For example, reading and writing in the elementary school could be considered vocational, inaspuch as

ERIC Full Text Provided by ERIC

The Encyc opedia of Education, Vol. 5, "Industrial Arts Foundtion; Elimentary School", Elizabeth Sunt, MacMillan Company and the West po 5-6

such skille are the chitchi explicitles in a literary

In most instances place the property of intestical affice powers kindergatter through sixth intaile. This lower of industrial arts is destined from the junction senter high school lead because in altivities are describly conducted in the child's own trassroom. Although some schools may have a special from to which childian go for the manipulative phase of industrial acts be traphed in a separate room, ideally the manipulative aspects maintain their relationship to subjects studied in the classroom.

The purpose in developing and maintaining the relationship between manipulative antivities and subject matter
as to provide a context for interpreting for the child?

the righthulance of the skill acquired, the specific tools,
materials, and processes used, or the product developed

Elementary grades--activities are to familiaries students with the many kinds of work people do and the interrelationship of such work in producing and using goods and services. Emphasis is placed on attitudes, values, and mainpulative activities that group interaction, tooks & materials, individual curiosity, role playing, similation games, etc.

The range and nature of the manipulative aspects of industrial arts activities are diverse and vary from school system to school system. Children in kindergaries mass produce teems: Tut and shape thermoplastics: vacuum form plastics: pound mairs in a trea stumps: print with ABC blocks: print by the silk-screen method: work with battary, bulb, and buzzer circuits; run the liquid duplicator; and shape clay and tire it. As the children

get older, they engage in these and other processes on a more sophisticated level. They make their own cameras: develop their own film: build a variety of electrical devices such as motors and crystal radio sets: construct transits for mapping: construct musical instruments: make paper for printing: and even build and launch rockets. Their activities may range from felling trees for construction of an authentic log cabin to manage all the aspects of a rubber-stamp business, including bookkeeping and the technical process of making the rubber stamps. 10

Exploration: level II--to seek. . . to search. . . to examine minutely especially for diagnostic purposes. . . to make or conduct a systematic search during the middle or junior high grades children would be able to explore in a laboratory of technology and careers. This implies the utilization of a multiple activities classroom where children could experience technical concepts, research career opportunities, solve prob-. iems and study interdependencies of careers, jobs, industry, etc. This . would be a great change over traditional industrial arts labs where projects are the center of activity. The conceptual approach affords children a broad exposure to concepts of the world of work. The fact that while functioning within such an environment children would be problem solving, all areas of the curriculum would be emphasized. Conversation, written report findings, demonstrations, calculations, group interaction, scientific/physical properties being used and worked with would be evidence of a natural integration of interdisciplinary teaching. This does not imply totality but only a segment of our curriculum. It is not my belief that, one concept should be overpowering the others.

¹⁰ abid., Industrial Arts Education: Elementary Schools p. 7

The accomplishment of problem-solving does not always require and extemperanious idea but may be in the form of simulation, models, games, role play. It is not to imply that these experiences could not be personal formed in the subject area classroom but could also be accomplished in this laboratory. Many situations may require greater setting up or durations of time that could be suited to the laboratory. Special equipment may and will be required which would be best suited to a laboratory. This then would offer children the exploratory phase to the career education concept. Remembering this is to be for all and not selected students.

The industrial arts teacher, verses vocational teachers, is broad in his vision to careers and technologies. He is interested in a bredth of exposures to assure students a greater base of knowledge to establish work decisions at a later period it his life. The student can make a wiser selection of career with this broad base to work from. He will be exposed to many sectors of industry and technology. He learns the solving of problems by scientific process. He interacts within groups to design, implement and evaluate a mass production problem. There are many exercises to perform in the understanding of a technological society which is composed of varying careers.

The industrial arts teacher would not be concerned about the utter exactness of a skill but rather the conceptual understanding of application and utilization in the world of work. With this kind of involvement children find a meaning in their education. It becomes fun and when learning becomes fun children "turn-on" and get excited. We as adults are drawn to certain activities and oppose others based upon our enjoyment of the activity.

Thus, the exploratory phase built upon the awareness stage becomes another step in a logical sequence toward career decision and pursuit.

Occupational selection, level III, funnels down to explicit choice and

In an interdisciplinary approach we see by subject area the concepts to be developed at various grade levels and can detect the implication of activity through industrial arts and career education.

#6 Social studies---activities
#7 Science---activities
#8 Language arts---activities
#9 Math---activities
#10 Illustrates implimentation of science
for paper
Language Arts---use of paper
Math---amounts of materials
Industrial arts---use of tools and
materials to make paper

Dr. William Purkey at the Open School Conference at Berkeley County stated "There's no such thing as an unmotivated kid. A kid is always learning." He declared. "Teach him he's valuable and able and what it means to be a human being."

I would like to conclude by showing this group a video tape of the Design for Learning" a Ford Foundation project.

STUDIE

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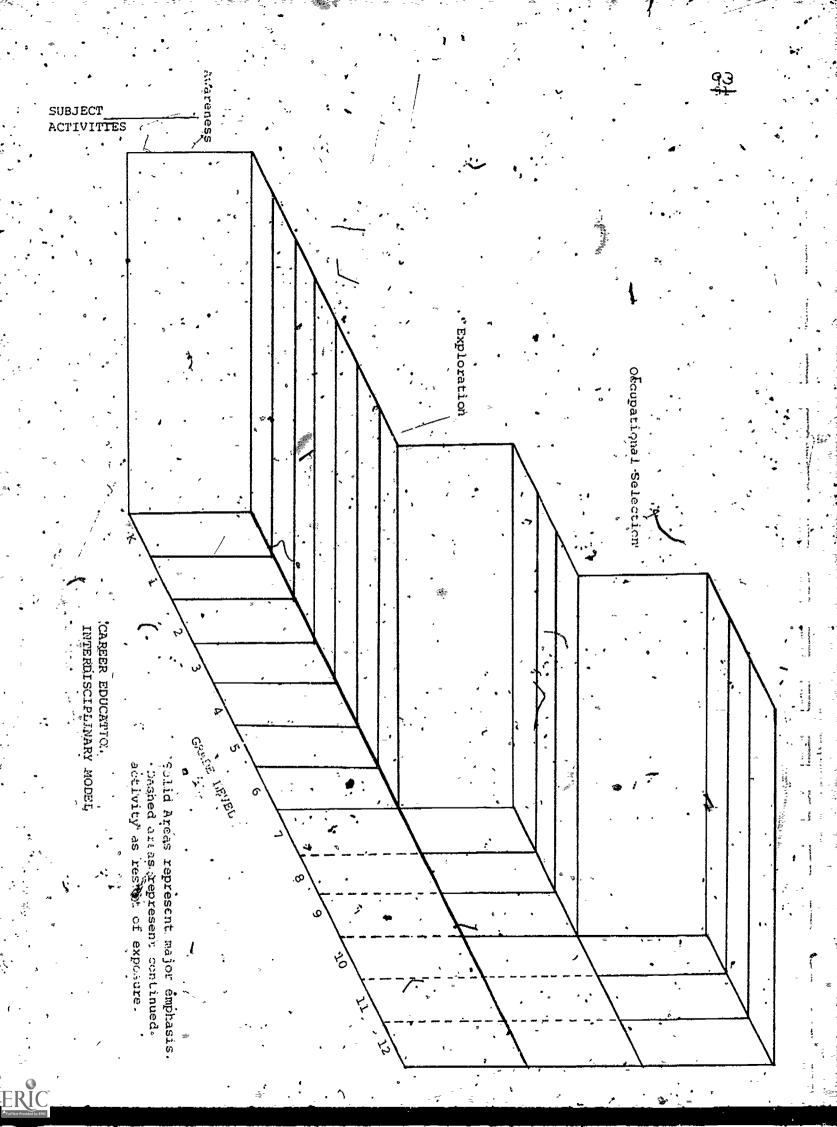
Problem areas

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Guidance Supportíve Services, Conceptual Understanding of Techno Counciling. Specificity of study (Research & Elementary . Secondary .logical applications Simulation & Games Placement Math Sécondary (7-12) Role Playing Studies Social CAREER EDUCATION Industrial Self (inner being enhancement) Arts Tools & Materials (hands-on) Awareness (careers) Science Interdependencies Elementary (K-6) Attitudes Language Values Music Education Vocational Secondary

-Conceptual Understanding of Technólogical applications
-Role Playing
-Simulation & Games
-Specificity of study (Research & Development)
-Post-secondary preparation
-Post-secondary preparation
-Rolated activities of technology
-Selected activities of technology
-Selected activities suited to interest, aptitudes, etc.
-Continued Consumer's knowledge
-Environmental Education
-Relationship to Givilization
-Planning for prodúction , Manufacturing
-Distribution
-Service

Environmental Education

Consumer Knowledge

Group Interaction . Technology Development CAREER EDUCATION CURRICULUM DEVELOPMENT

by Levene A. Olson

This course in Career Education at Marshall University involves an introduction to the process of systematically providing students with realistic educational experiences which focus on the developmental process of career maturation. The teaching strategies or techniques of field experiences, interpersonal interaction, manipulative activities, multi-media activities, occupational research, resource role models, and simulated and/or hands-on experiences are investifated.

The concept of curricular correlation utilizing fine arts, language arts, mathematics, science, and social studies is introduced. Sources of commercially produced materials and methods of student-teacher produced materials are investigated.

The goals of the course are: To assist educators in stating behavioral objectives and in relating performance driteria to student evaluation; to develop increased awareness of the relationship between teaching strategies and curricular correlation as they relate to preparing and teaching an instructional resource unit; and to develop increased skill in researching an occupational area and selecting strategies for implementation of career education as an intregal part of the existing courses offered in the local school.

OBJECTIVES

The participants/involved in developing curricular materials will:

- 1. Define Career Education and develop a rationale for Career Education.
- 2. Prepare a bibliography of Career Education resource materials.
- 3. List teaching procedures and student activities appropriate to a specific grade level and appropriate to the career education model.
- 4. Prepare a list of goals for a specific grade level and specific subjects.
- 5. Prepare a list of Career Education goals based on the occupational matrix and career education model.
- 6. Determine and list activities to be used to achieve the subject A and career education goals.
- 7. Write psychomotor, affective and cognitive objectives appropriate to the occupational martrix and the career education model.
- 8. Prepare descriptive occupational information appropriate to the occupational matrix and the career education model.
- 9. Prepare concepts for each module.
- 10. Prepare a list of correlation activities for the subject areas which are appropriate to the occupational area being developed.
- 11. Prepare measurement and evaluation procedures appropriate to the instructional resource unit and students.
- 12. Develop an instructional resource unit for the appropriate grade level which contains a certificate of advisory committees, subject goals, career education goals, a list of correlation activities, descriptive occupational information, behavioral objectives, outline of content, teacher activities, student activities; resources, measurement and evaluation instruments, and a bibliography.
- 13. Utilize an occupational advisory committee to critique the instructional resource unit.
- 14. Utilize an educational advisory committee to critique the instructional resource unit.

INSTRUCTIONAL UNITS

nits 1 & 2 INTRODU

 $\bullet \mathtt{INTRODUCTION} \ \ \mathtt{TO}_{\widehat{\mathbb{A}}} \mathtt{CAREER} \ \mathtt{EDUCATION}$

Unit 3

DEVELOPING CURRICULAR MATERIALS IN CAREER EDUCATION.

Unit 4 & 5

IMPLEMENTING CAREER EDUCATION

Unit 6 & 7

EDUCATION AND THE WORLD OF WORK

Unit 8

MEASURABLE BEHAVIORAL OBJECTIVES

Unit 9

UNIT DEVELOPMENT CONCEPTS

Unit 10 & 11

EXPERIENTIAL ACTIVITIES IN UNIT DEVELOPMENT

Unit 12

UNIT DEVELOPMENT

Unit 13

OCCUPATIONAL ADVISORY COMMITTEE MEETING

Unit 14

SEMINAR ON UNIT DEVELOPMENT

Unit 15

UNIT DEVELOPMENT.

Unit 16

EDUCATIONAL, ADVISORY. COMMITTEE MEETING

Unit 17

SEMINAR ON UNIT DEVELOPMENT

UNITS, METHODS, AND ASSIGNMENTS

Units 1 & 2

INTRODUCTION TO CAREER EDUCATION
Career Education Principles
Career Education Models

Methods of Presentation

U.S.C.E. Film "Career Education"

Handout; Career Education Principles

Assignment Define Career Education

DEVELOPING CURRIC R MATERIALS IN CAREER EDUCATION
Subject Goals
Career Education Goals
Behavioral Objectives
Advisory Committees
Occupational Matrix
Occupational Information
Curriculum Development
Correlated Curriculum
Teaching Strategies
Bibliography

Methods of Presentation Lectures . Discussion

Assignment
Develop a rationale for Career Education

IMPLEMENTING CAREER EDUCATION

Career Education Model K-A

Career Education in Practice

Methods of Presentation Visuals Slides Discussion Interaction Groups

Assignment 3

List teaching procedures and student activities appropriate to the grade level you are teaching and appropriate to the Career Education Model.

Unit 3

Units 4 & 5

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Units 6 & 7

EDUCATION AND THE WORLD OF WORK
Occupational Clusters
Occupational Matrix
Subject Goals
Career Education Goals
Correlating Curricula

Methods of Presentation
Lecture
Discussion
Interaction Groups

Assignment

- Prepare a list of goals for the grade level and subjects you teach.
- 2. Prepare a list of goals in Career Education based on the Occupational Matrix and Career Education Model.
- 3. Prepare a bibliography of resource materials.

Unit 8

MEASURABLE BEHAVIORAL OBJECTIVES
Visible Behavior
Conditions
Performance Level
Taxonomy of Objectives

Methods of Presentation
Lecture
Handouts
Group Exercise
Individual Exercise
Discussion

Assignment

Write psychomotor, affective and cognitive objectives related to the occupations upon which your unit is based.

Unit 9

UNIT DEVELOPMENT CONCEPTS

Behavioral Objectives
Occupational Information
Content
Teacher Activities
Subject Correlation
Student Activities
Resources
Evaluation

Methods of Presentation
Lecture
Discussion

Assignment &

Gather occupational information related to the occupations upon which your unit is based. Prepare methods of correlating the curricula...

Units 10 & 11

EXPERIENTIAL ACTIVITIES IN UNIT DEVELOPMENT

Behavioral Objectives

Occupational Information

Teacher Activities

Subject Correlation

Student Activities

Resources

Evaluation

Methods of Presentation
Lecture
Discussion
Interaction Groups

Assignment

Combine assigned components of the unit and continue development of your unit. Select your advisory committees.

Develop concepts for each module.

Unit 12

UNIT DEVELOPMENT

Method of Presentation Individual work

Assignment

Arrange for your Occupational Advisory Committee to meet and critique your unit in terms of the occupational activities and experiences:

Unit 13

OCCUPATIONAL ADVISORY COMMITTEE MEETING

Method of Presentation
• Discussion

Assignment

Utilize the comments and information provided by your advisory committee to revise your unit. . .

Unit 14 ·

SEMINAR ON UNIT DEVELOPMENT

Method of Presentation Discussion

Assignment Continue development of your unit

UNIT DEVELOPMENT

Method of Presentation Individual Work:

Assignment

Arrange for your Educational Advisory Committee to meet and critique your unit in terms of the educational activities and experiences.

EDUCATIONAL ADVISORY COMMITTEE MEETING

Method of Presentation Discussion

Aşşignmen¢

Utilize the comments and information provided by your advisory committee to revise your unit.

SEMINAR ON UNIT DEVELOPMENT

Method of Presentation Discussion -

Assignment

Complete your Instructional Resource Unit

Unit 15

Unit 16

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Certificate of Advisory Committees

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We hereby certify that the attached Instructional Resource Unit was prepared in consultation with the Educational Advisory Committee.

ERIC.

INTRODUCTION

In one or two pages, define career education and develop the rationale (reason or need) for this educational approach being used at a particular grade level. Explain how this unit is to be used by the teacher.

SUBJECT GOALS

Fine Arts

- 1. .
- 2.
- 3

Language Arts

- 1.
- 2.
- 3
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Mathematics/

- 1.
- 2.
- 3.

Science'

- 1.
- 2.
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Social Science

- 1.
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CAREER EDUCATION GOALS

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CORRELATED CURRICULA

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DESCRIPTIVE INFORMATION

To assist the teacher and students, include information concerning the occupations studied in this unit. The amount of information will depend on the grade level in which this unit is to be used. Suggested types of information which you may want to include are as follows:

- 1. Advancement Possibilities
- 2. Advantages
- 3. Disadvantages
- 4. Dress Requirements
- 5. Education Requirements
- 6. Fringe Benefits
- 7. Future Outlook
- 8. Geographic Location
- 9. Legal Requirements
- 10. Occupational Advancement
- 11. Occupational Tools
- 12. On-The-Job Training
- 13. Physical Requirements.
- 14. Related Occupations
- 15. Skill Requirements
- 16. Subject Knowledge Requirements

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3	Displays	•			
8.	Dramatization	,			
. 9 .	Drawings	1			
, 10,	Exhibits				f
.11.	Field Trips '		•		
, 12.	Games (Participa	ite)		-	
13.	Questioning ?				,
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21	Plays	(•	
22.	Psychomotor Acti	rancres			
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- 23. Readings
- 24. Research
- 25. Role Playing
- 26. Singing
- 27. Speeches
- 28. Scrapbooks
- 29. Simulation Exercises
- 30. View Films
- 31 View Television
- 32. Write Letters
- 33. Write Plays
- 34. Write Reports

7. Evaluation

- 1. Anecdotal Records
- 2. Conferences
- 3. Discussión
- 4. Formal Tests
- 5. Interpretive Exercises
- 6. Observation
- 7. Rating Scales
- 8. Work Samples

Resources and Materials

ERIC Full Text Provided by ERIC

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 Training Design for Teacher Orientation in Career Education. Huntington,
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CAREER EDUCATION PRACTICUM

LeVene A. Olson

This course in Career Education at Marshall University involves the implementation and Validation of a career education instructional resource unit. Career Education is a process of systematically providing learners with meaningful experiences which focus on helping them become viable individuals who are capable of making accurate choices concerning future careers.

This course focuses on the development and/or revision of needs assessment techniques, definition of career education, rationale for career education, subject goals, career education goals, behavioral objectives, concepts, teaching procedures, subject correlation, student activities, evaluation techniques, and resources. The development and/or revision of these components are based on their effectiveness a measured by the teacher.

The goals of the course are: to assist educators in implementing a career education instructional resource unit; to develop an awareness of the effectiveness of the unit based on student reaction; and to further develop and/or revise the components of the unit to increase its effectiveness.

PROCESS OBJECTIVES

The participants involved in implementing and validating curricular materials will:

- 1. Develop and/or revise needs assessment techniques to ascertain the developmental level of the students.
- 2. Develop and/or revise a definition and rationale for career education.
- 3. Develop and/or revise subject goals.
- 4. Develop and/or revise career education goals.
- 5. Develop and/or revise bahavioral objectives.
- 6 Develop and/or revise descriptive information about occupations
- 7. Develop and/or revise concepts for each teaching procedure noted in the unit.
- 8. Develop and/or revise teaching procedures.
- 9. Develop and/cr revise subject correlation activities.
- 10. Develop and/or revise student activities.
- ii. Develop and/or revise evaluation techniques.
- 12 Develop and/or revise resources and materials

PRODUCT OBJECTIVE

Each participants will complete a validated career education instructional resource unit which contains a needs assessment inventory, definition of career education, reationale, subject goals, career education goals, behavioral objectives, descriptive information, concepts, teaching procedures, subject correlation, student activities, evaluation techniques, and resources

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EVALUATION

by LeVene A. Olson

The concern in planning, developing, and implementing any educational project is that of providing experiences which will achieve the objectives.

The general objective for the institutes was to provide meaningful information and experiences upon which educational leaders in the local school systems are able to systematically make decisions relative to planning, developing, providing, implementing, and evaluating Career Education. A second general objective which is present in all situations in which the project director is sensitive to the needs of the participants is that of creating an open atmosphere which allows for free and honest feedback upon which program adjustments can be made.

The [Problem

The general question asked in this study is as follows: Will administrative, supervisory, and counseling personnel representing local education agencies who have been provided career education information and experience in an open environment that is both task and process oriented reflect more knowledge and more positive attitudes about career education than they did prior to the career education institute? The specific research question involved the comparison of pretest and posttest scores representing attitudes, familiarity, and perceptions of career education.

Limitations

The study was limited to those participants who were pretested at the beginning of the Career Education Institutes conducted in Charleston,

Princeton, Glen Dale, Keysers, and Clarksburg, West Virginia and posttested subsequent to each institute.

Research Objectives

The research objectives of this study are as follows:

- 1. To compare the participant's attitudes related to career education prior to the Career Education Institute with their attitudes relate to career education subsequent to participation in the Career Education Institute.
- 2. To compare the participants familiarity with career education prior to the Career Education Institute with their , familiarity with career education subsequent to participation in the Career Education Institute.
- To compare the participants perceptions of career education prior to the Career Education Institute with their perceptions of career education subsequent to participation in the Career Education Institute.

Instrumentation

The Familiarity Scale, Attitude Scale, and Semantic Differential devised by the researcher for the Career Education Institutes were utilized to determine the effectiveness of the experiences which were provided to the participants. The instruments are included in Appendix A

Findings

The differences between the pretest and posttest means on the attitude scale were large enough to indicate a very definite change in attitudes in a positive direction. Refer to figure 1 for a graphic illustration and to Appendix B for test scores.

Figure 2 illustrates the differences between the pretest and posttest means on the Familiarity Scale. The differences indicate a definite increase in degree of familiarity with certain concepts which are important in career education.

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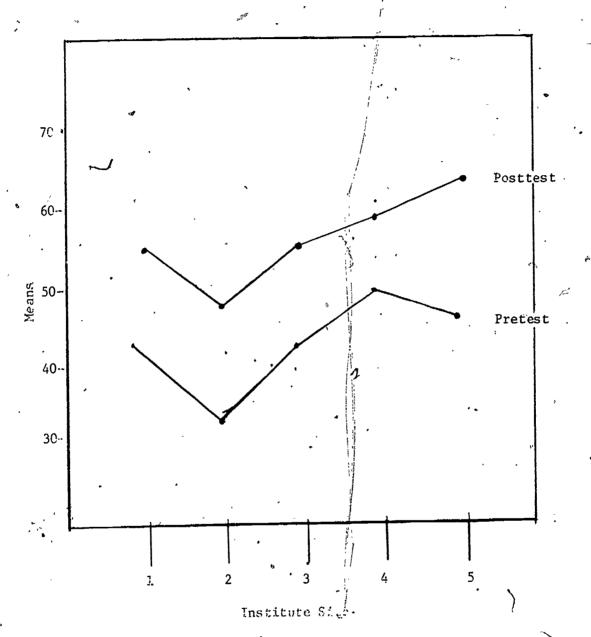
The results of the Semantic Differential are illustrated in Figures 3 and 4. The differences, although positive, were so small that no definite significance can be attached to them.

CONCLUSION

The results of the evaluation of the Career Education Institutes indicates the effectiveness of tilizing a task and process approach to inservice education. Educators as well as elementary, secondary, and college students are seeking meaning and relevancy in their endeavors

But of more importance than the test results has been the receptivity by educators at the local level to the career education concept. Since the Career Education Institutes were completed, the interest and concern of local educators has been translated into action by many participants.

Many of the staff members on this EPDA project have been involved in numerous local school systems in conceptualizing and implementing career education in West Virginia.



Plan / 1. Aftitude Scale



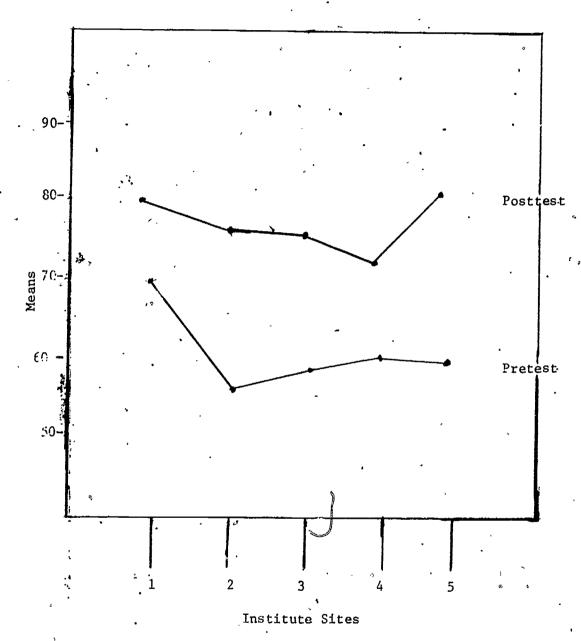


Figure 2. Familiarity Scale

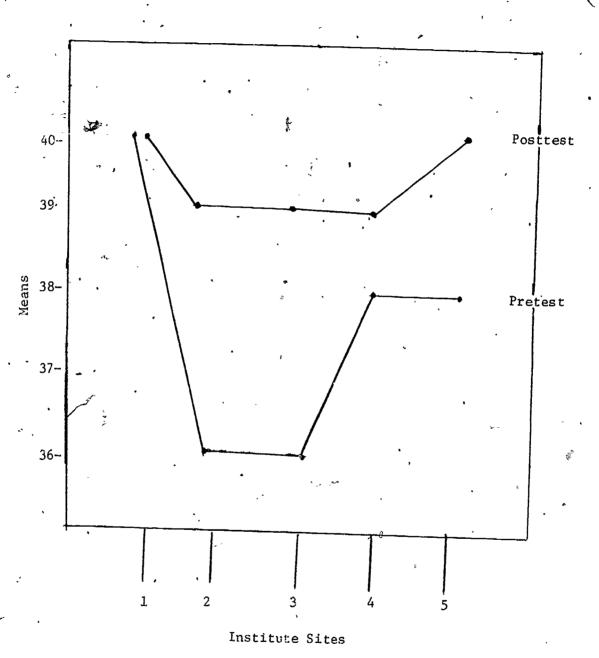


Figure 3. Semantic Differential (Vocational)

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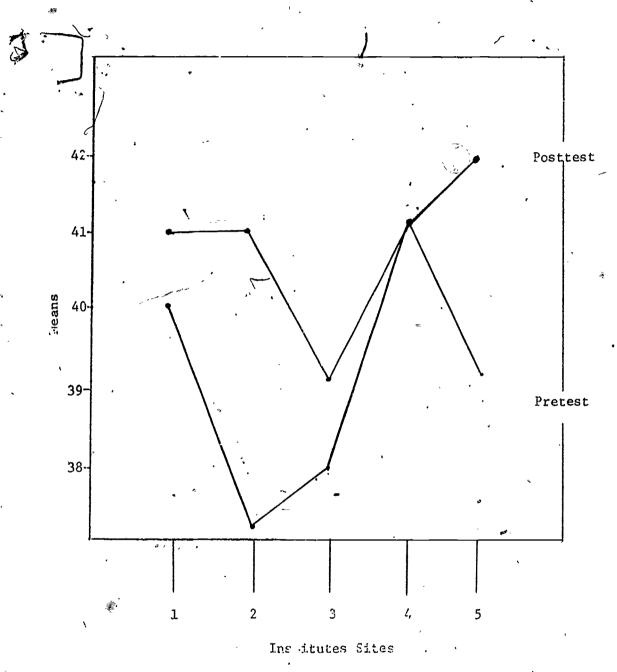


Figure 4. Semantic Differential (Chreer)

APPENDIX A

Attitude Scale

Fåmiliarity Scale

Semantic Differential Scale

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CAREER EDUCATION INSTITUTE

ATTITUDE SCALE

Name:
Position: Institute Site:
Circle one: Male Female
This is not a test. There are no right or wrong answers. We are
interested in how this group of educators feel about certain statements
Information used from this instrument will be reported only on a random
basis. No information on individuals will be provided to Local, State,
or Federal agencies. The information you provide will be kept strictly
confidential.
Please respond to each statement on the following pages by placing
an "X" in the space which best indicates your opinion about each state
ment according to the following criteria:
SD: I strongly disagree with the statement
D: I disagree with the statement
NO: I have no opinion about the statement
A: I agree with the statement
SA: I strongly agree with the statement
1. Adults find their imaginations taxed to comprehend a new world, a
now world that youth understand and accept with ease.
SD D NO A SA
2. All persons in all communities of the state should be provided



	ready access to Vocational Education Programs.
	SDDNOASA
3.	Career Education should begin at the kindergart n or first
	grade level.
	SDNOASA
4.	The most effective and efficient form of instruction is the
	lecture-demonstration approach.
	SD D NO A SA
5.	It is possible that some secondary schools in West Virginia
	should not offer Vocational Education Programs.
	SD D NO A SA
6.	Vocational counseling and guidance, to provide career exploration
	experiences upon which career decisions can be made, should begin
	in the middle school and be a pressing issue in high school.
	SD D NO A SA
7.	Vocational Education should not stress the theory that the mind
	is a muscle and requires exercise.
	SD D NO A SA
8.	At the elementary level, activity centered projects give the student
	concrete experiences which serve to provide specific vocational
	skills.
	SD D NO A SA
9.	Acquisition of job entry level skills is not a characteristic of
	career education programs at the Jr. high school rever
	SD D NO A SA

10.	Educators should strive for a dual system of education (vocational
	and academic).
,	SD D NO A SA
11.	Teachers serving the disadvantaged and/or handicapped students
	at the secondary level should provide a separate specialized pro-
	gram for these students.
•	SD D- NO A SA
12.	Vocational teachers should work closely with academic and administra-
	tive personnel in a school to insure that vocational education does
	not become a separate discipline.
	SD D NO A SA
. 13.	Exemplary programs are designed to provide information and experiences
	for students which will enable them to make occupational choices.
•	SD D NO A SA
- 14.	Rotation of students through several vocational courses is sufficient
	occupational orientation for any student.
	SD D NO A SA
15.	Career Education will provide students with broader career opportuni-
	ties.
	SDDNOASA
16.	A separate vocational school or distinct vocational tracks should
	be provided to, high school students.
	SD D NO A SA
17.	Vocational and technical programs should be readily available to
	most adults.
	SD DNO A SA
	•

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18.	Students of	a Kinde	rgarten tl	nrough A	Àulthood I	rogram sh	ould posses	S
	mobility on	a geogr	aphical b	asis.		•		
	SD	D	NO	A	, SA	•	` ,	
19.	Industrial	arts is	able to p	rovide c	areer expl	loration e	xperiences	
	to students		• ·					
	SD.	D	NO	A.	SA	` ~	*	٠٠,
20	Graduates o	f multi-	occupatio	nai voca	tional edu	ucation p	rograms	
촼	should be a	ble to a	dapt to t	echnolog	ical chang	ge with li	ttle	
	difficulty.							
	. sd	, <u>D</u> ,	®NO	A	SA	•		
21.	In-depth pr			,		n should b	e	
	accomplishe	d by mos	t studenț	s after	gradųation	n from high	h school.	
	· SD_ ~	D	NO	, A	SA			
22.	The integra		•			th vocation	nal edu-	
	cation cour	se conte	nt is a go	ood idea	which wil	ll never w	ork in	
	reality.			£	- 			
. •	SD	D	NO	A .	SA		•	
23.	Most sophom					making de	finite	
	career deci	sions.	ī			•		
¢	· sD	. D	NO .	A	SA			
24.	Integration	of acad	emic areas	s with v	ocational	education	will enabl	Le
	stúdents to	apply v	arious sub	ojects t	o their co	ourses in	vocational	
	education.	•						-
	SD	D	NO	A	SA		•	
25.	Students gr	aduating	from a ge	eneral e	ducation p	program wi	ll be able	
	to obtain e	mploymen	t in a nur	mber of	occupation	ns with li	ttle	
	difficulty			,		-		
	SD	D .	NO	À	SA			

26.	Individ	ualized pre	scríbed'i	nstructi	on shoul	d only be	used f	or.
	remedia	l work with	lower ab	ility st	udents.	•	,	
	SD_	D	NO	A	SA	— ~ <u>`</u>		
27.	A two a	nd one half	hour blo	ock of ti	me, five	days a w	eek for	yoca-
	tional	education i	s a deter	rent to	program	enrollmen	nt.	- `
· .	, 2D_	D	NO	A	_ SA		. لئ	Y.
28.		of a single				. 6	ccupati	onal
	areas w	ithin one c	lassroom	is not f	easible.	3 2 000	•	•
	. SD_	D	NO	A 1	.' SA		,	;
29.	Vocation	nal educatio	on in all	the ser	vice lin	es should	l provid	le`
-	career	exploration	experier	ces for	studentŝ	•	1	•
	SD	Ď	NO	, A	SA.			• ;
30,	Career	education sl	nould be	limited	to those	students	who do	not,
	intend	to pursue a	college	educatio	n.			•
٠	SD_	D	NO :	A	ŞA	_ `,·	·	
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2	.•		Very Familiar	Rather Familiar	` ‹› Moderately Familia	Slightly Famılïar	Not Familiar
	1.	Career Education	VF	ŔF	MF	SF	NF
	2.	Career Awareness	VF	ŘF	MF	SF .	NF
	3.	Career Orientation	VF	RE	MF	. SF	NF
	4.	Career Exploration	VF	· RF	MF	SF	NF
	5.	Vocational Education	VF	Ŕŗ	__ MF	SF	NF
	6.	Cluster Concept Program	VF	RF	MF	SF	NF
	7.	Field Experiences	VF	RF .	MF	SF	. NF
	8.	Curriculum Blending	٧٠	RF ·	MF	SF	NF
	Э.	Resource Role Models	VF	RF	MF	'SF	NF
	10.	Simulation Activities	VF	RF	MF	SF	NF
	11.	Role Playing	VF	RF	MF	SF	NF
	12	Psychomotor Activities	VF	RF	MF	SF	NF
:	13.	Re'n .or Modification	VF	RF	MF	j, SF	NF
	14.	Future Shock	VF	RF	MF	≲SF (}	NF
	15.	Multi-Occupational Program	VF	RF	MF	SF	NF
	16.	Cooperative Education	VF	RF	MF	SF	NF
	L7.	Articulation	VF	Rr	MF	SF	NF
	18.	Behavioral Objectives	VF	RF ·	MF.	SF	NF
:	L9.	Teching Strategies	VF	RF	MF	SF	ŅF
2	20.	Experiental Activities	VF	RF	МЕ	SF	NF

CAREER EDUCATION INSTITUTE SEMANTIC DIFFERENTIAL

Name:/		
Position:	•	
Institute Site:		
Circle one: Male	Female	

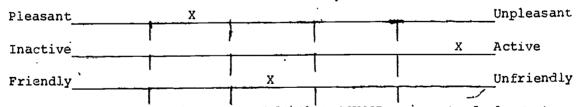
This is not a test. There are no right or wrong answers. We are interested in how this group of educators feel about certain concepts. Information used from this instrument will be reported only on a random basis. No information on individuals will be provided to Local, State, or Federal agencies. The information you provide will be kept strictly confidential.

At the top of each page in this booklet is a word. Beneath each of these words there are pairs of words with opposite meanings.

You are to place an "X" in the space nearest to the meaning which tells how you feel about the concept.

For example:

ECHOOL



In this example the person felt that SCHOOL was sort of pleasant, but not very pleasant so he placed an "X" in one space away from pleasant.

Then he felt that SCHOOL was very active, so he placed an "X" in the space right next to the word active.



Then he felt that SCHOOL was not friendly and was not unfriendly, so he placed an "X" in the middle space between friendly and unfriendly.

Remember, put only one "X" on a line and complete each page before turning to the next page.

	VOCATIONAL EDUCATION	1
Pleasant (Unpleasant
Inactive		Active
Friendly		Unfriendly
Energetic		Lazy
Slow		Fast
Good		Bad
Cruel		Kind
Soft		Hard
Unfair 5		Fair /
Rugged.		Delicate Violent
Gentle		_ Weak
Strong Dull		Sharp
Duii		

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CAREER AWARENESS

Pleasant		Unpleasant
Inactive		Active
Friendly		Unfriendly
Ene rgetic		Lazy
Slow 🍹		Fast
Good	• .	Bad ' "
Cruel		Kind
Soft		Hard '
Unfair		Fair
Rugged		Delicate
Gentle		Violent .
Strong		Weak
Duli		Sharp .
		•

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APPENDIX B

Test Scores

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CAREER EDUCATION INSTITUTE Site One

	Participant Random	Career Education		Career	Education	Seman	tic Dif	ferenti	
	Number	Attitud			Familiarity Scale			Care Awaren	ess ess
		Pretest	Posttest	Pretest	Posttest	Pre	Post	Pre	Post
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	19 62 61 39 30 60 73 43 66 39 49 59 43 36 61 47 55	67 66 48 58 64 85 71 31 56 49 56 46 67 48 56	44 53 48 62 92 59 71 36 66 60 70 41 35	87 88 68 65 69 95 100 83 74 50 74 87 81 77 70 62 56 56	40 37 35 31 32 34 41 38 41 44 39 39 41 40 41 37 43 27	43 440 36 35 33 43 445 45 46 36 42 43 43 45 45 47 45 47 45 47 45 47 47 47 47 47 47 47 47 47 47 47 47 47	41 42 38 35 42 42 41 44 43 41 42 42 44 39 38 35	41 42 38 36 42 41 42 43 44 41 37 42 46 38 44 37
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CAREER EDUCATION INSTITUTE

Site Two

17	Career Education t Career Education Semantic Different							
Participant Random		ducation :		rducation Tity Scale	Vocati		Caree Awaren	al T
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2 3	6	10	54	68 65	37	45	39	46
, 3 4	51 43	68 51	44 61	65 72	37 44	41 42	39 0	47 42
5	41	63	39	86 ·	37	37	41	45
6	12	47	40	87	32	31	35	40
7	25	43	33	82	32	35	36	42
8 9	24	57 .	60	100	40	37	37	41
10	41 52	65 35	62 90	81 74	30 26	38 28	40 30	45 24
11.	23	53	, 61	86	36	40	. 34	42
12	39	52	34	69	36	37	42	42
13	57	61	61	80	39	44	38	43
14	43	51	74	84	37	35	42	38
15	49 33	47 / 43	54 53	79 71	37 ⁻ 33	31 35	43 36	39 37
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CARÈER EDUCATION INSTITUTE
Site Three

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Participant	Career	Education	Career	Education				
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3	21	37	85	91	34	44	45	39
4	47	45	66	81	40	40	39	40
5	51	77	50	80	45	43	46	46
· 6	39	52	52	69	39	43	38	40
7	28	73	62	84	31	· 40	32	46
8	46	66	64 -	85	35	34	31	14
- S	27	45	51	86	35	43	36	43
10	38	49	51	78 ·	37	37	42	40
11	37′	51 .	65	88	33	45	40	41
12	33	64	49	66	38	39	35	42
13	25	25	77	76`	29	37	38	38
14	47	51	45	60	37	33	43	38
15	51	67	57	71	43	36	35	37
16	53	65	54	68	38	37	41	40
17	35	53	42	80 -	- 36	36	36	40
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CAREER EDUCATION INSTITUTE Site Four

Participant	Career	Education	Career	Education	Semai	ntic Di	fferent		
Random	Attitud	de Scale	Familiar	ity Scale	Vocat	tional	Aware	reer ness	
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6	- 25 49	59	85	88	38	40	44	37	
7	49 61	59 58	65	79 ·	3,7	36	37	38	
8	35	73	76	92.	35	38	25	41	
9	85	93	87	88	43	45	45	45	
. 10	39 '	48	53	- 74	41	43	42	42	
11	43	70	79	97	. 45	41	46	44	
12	55	43	75	80	, 33	30	38	42	
1 72	13	31 "	85	_{>} 79	35	31	30	36	
14	49	37	36	61	42	45	35	38	
15	51	57	61	81	45	45	42	42	
. 16	34	41	68	76	43	44	46	44	
17	38	63	73	91	45	45	46	44	
18	27	57	99	100	39	40	44	46	
19	18	41	79	76	41	42	40	37	
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CAREER EDUCATION INSTITUTE
Site Five

		Site F	<u>ive</u>	<u> </u>				
					Semantic Differential			
Participant	Career Edu			ducation1		·	Care	
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3	41	· 69	54	. 71	43	44	41	40
4	50	58	61.	68	36	36	37	38
. 5	89	5.21	65	. 81	37	39	30	43
. 6	21	5,5	60	70	35	33	35	36
7	_ 55	5 5	80	89	35	36	35	39
8 '	37	31	32	78	38	41 .	42	45
9	56	71	42	81	40	38	41	33
10	69	8 2	89	90	36	45	45	46
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